

WHITNEY

Ball Bearing Punches, Shears, Angle
Iron Machinery and Bending Brakes

WHITNEY METAL TOOL CO.

91 FORBES STREET
ROCKFORD, ILL.

CATALOG NO. 13

PRICE CHANGES

Catalog No. 13

Effective February 15, 1940

16	{ Dies Type N-P-R-S shown on page 8..... \$2.50 Dies Type M-T shown on page 8..... 3.00
17	{ Dies Type N-P-R-S shown on page 8..... 2.50 Dies Type M-T shown on page 8..... 3.00
26 and 27	{ Punches over 1" to $1\frac{5}{16}$ " dia., 12 or more 2.25 Punches $1\frac{5}{16}$ " to $1\frac{5}{8}$ " dia., 12 or more..... 2.50
Punches	{ Punches $1\frac{5}{8}$ " to 2" dia., inclusive, 12 or more 2.70
40 and 40B Dies	{ Dies Type N-P-R-S shown on page 8..... \$3.55 Dies Type M-T shown on page 8..... 4.05

Above price net, f. o. b. Rockford.

No. 13 Ratchet Handle used in connection with
 No. 10, 11 and 12 Punches, List 22.00

No. 19 Ratchet Handle used in connection with
 No. 20, 24, 25, 26, 27 and 50 Machines,
 List 26.00

f. o. b. Rockford.

Subject discount as of Page 1.

WHITNEY METAL TOOL CO.

91 Forbes Street

ROCKFORD,

ILLINOIS

Practical Rules

Oil

Always use a few drops of oil on punches when using as it will increase the life of them.

Punch and Coupler

The punch is intended to float; i.e., it is not held tight by the coupler in the spindle and will always center itself when at work.

Spindle

Remember the spindle turns on Ball Bearings, therefore use some heavy oil occasionally on the spindle by removing the upper handle and dust cap. Oil also can be inserted at the bottom of the spindle.

Stripper Fingers

Always take care the stripper fingers are set in a parallel position. Do not allow one of them to be higher than the other as this will have a tendency to break the punch 99 times out of a 100 when the punch is being stripped from the material at an angle.

Punching I-Beams

When punching the flange of I-Beam always use a bevel die to compensate the bevel of the I-Beam.

Kindly read carefully instruction card attached to each machine.

*To Get Results Use
Genuine Punches and Dies Marked Thus:*



There Is a Difference

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Size of Machine	Each
10,	Punches or Dies on orders of one or more... \$.30
11, 12,	Punches or Dies on orders of 12 or more... .25
15	Punches or Dies Type N-P-R-S shown on page 8..... 1.25
All Inter-change-able	Punches or Dies Type M-T shown on page 8 1.45 Necessary Guide and Stripper Plate for ir-regular shaped Punches..... 2.00
16	Punches on orders of one or more..... .45 Punches on orders of 12 or more..... .35 Dies on orders of one or more..... .50 Dies on orders of 12 or more..... .45 Punches Type N-P-R-S shown on page 8... 1.00 Dies Type N-P-R-S shown on page 8..... 1.50 Punches Types M-T shown on page 8..... 1.15 Dies Types M-T shown on page 8..... 1.65
17	Punches on orders of one or more..... .50 Punches on orders of 12 or more..... .40 Dies on orders of one or more..... .50 Dies on orders of 12 or more..... .45 Punches Types N-P-R-S shown on Page 8.. 1.05 Dies on Types N-P-R-S shown on Page 8... 1.50 Punches Types M-T shown on Page 8..... 1.20 Dies Types M-T shown on Page 8..... 1.65
20, 24,	Punches or Dies on orders of one or more... .50
25,	Punches or Dies on orders of 12 or more... .45
40A	Punches or Dies Types N-P-R-S shown on page 8..... 2.50
All Inter-change-able	Punches or Dies Types M-T shown on page 8 3.00 Necessary Guide Stripper Plate for irregular shaped Punches..... 3.00
Be sure to State Punch Shank Diam.	Punches up to and $1\frac{1}{16}$ " dia. inclusive, No. 20 style, 1 or more..... .50 12 or more..... .45
26	Punches up to and 1" dia. inclusive, No. 40 style, 1 or more..... .70 12 or more..... .60
and	Punches over 1" to $1\frac{5}{16}$ " dia., 1 or more..... 2.35 12 or more..... 1.25
27	Punches $1\frac{5}{16}$ " to $1\frac{5}{8}$ " dia., 1 or more..... 2.60 12 or more..... 1.50
Punches	Punches $1\frac{5}{8}$ " to 2" dia., inclusive, 1 or more..... 2.80 12 or more..... 1.70
Be sure to State O.D. of Dies	Dies up to and $\frac{3}{4}$ " dia. inclusive, No. 20 flat top style, $1\frac{1}{4}$ " O.D. 1 or more..... .50 12 or more..... .45
	Dies up to $1\frac{1}{16}$ " dia., No. 40 flat top style, $2\frac{1}{8}$ " O.D. 1 or more..... .75 12 or more..... .65
	Dies $1\frac{7}{16}$ " to 2" dia. inclusive, $2\frac{3}{4}$ " O.D. 1 or more..... 2.00 12 or more..... 1.90

Size of Machine	Each
	Punches up to $\frac{1}{2}$ " dia. inclusive, No. 8 style, 1 or more..... \$.45 12 or more..... .35
Be sure to State Punch Shank Diam.	Punches up to and $1\frac{1}{16}$ " dia. inclusive, No. 20 style, 1 or more..... .50 12 or more..... .45
	Punches up to and 1" dia. inclusive, 1" shank 1 or more..... .75 12 or more..... .65
	Punches over 1" to $1\frac{1}{4}$ " dia., 1" shank, 1 or more..... .85 12 or more..... .75
28	Punches $1\frac{1}{4}$ " to $1\frac{1}{2}$ " dia., 1" shank, 1 or more..... 1.15 12 or more..... 1.05
29	
58	
68	Punches $1\frac{1}{2}$ " to $1\frac{3}{4}$ " dia., 1" shank, 1 or more..... 1.35 12 or more..... 1.25
Punch Presses	Punches $1\frac{3}{4}$ " to 2" inclusive, 1" shank, 1 or more..... 1.60 12 or more..... 1.50
	Dies up to and $\frac{3}{4}$ " dia. inclusive, No. 20 flat top style, $1\frac{1}{4}$ " O.D. 1 or more..... .50 12 or more..... .45
Be sure to State O.D. of Dies	Dies up to $1\frac{1}{16}$ " dia., No. 40 flat top style, $2\frac{1}{8}$ " O.D. 1 or more..... .75 12 or more..... .65
	Dies $1\frac{7}{16}$ " to 2" dia. inclusive, $2\frac{3}{4}$ " O.D. 1 or more..... 2.00 12 or more..... 1.90
	Punches on orders of one or more..... .70 Punches on orders of 12 or more..... .60
40,	Dies on orders of one or more..... .75
40B	Dies on orders of 12 or more..... .65
	Punches Types N-P-R-S shown on page 8.... 2.50
Are Inter- change- able	Dies Types N-P-R-S shown on page 8..... 2.55
	Punches Types M-T shown on page 8..... 2.65
	Dies Types M-T shown on page 8..... 2.70
	Necessary Guide and Stripper Plate for irreg- ular shaped Punches..... 4.00
1	Punches on orders of one or more..... 45c Punches on orders of 12 or more..... 35c
	Dies on orders of one or more..... 50c Dies on orders of 12 or more..... 40c
2	Punches on orders of one or more..... 45c Punches on orders of 12 or more..... 35c
	Dies on orders of one or more..... 50c Dies on orders of 12 or more..... 40c

**Nos. 1 and 2 Punches and Dies are for the
W. A. Whitney Mfg. Company's tools.**

OX	Punches or Dies on orders of one or more	\$.25
	Punches or Dies on orders of 12 or more .....	.20
XX and Hyro 18	Punches or Dies on orders of one or more .....	.30
	Punches or Dies on orders of 12 or more .....	.25
Kidder No. 1	Punches on orders of one or more .....	.45
	Punches on orders of 12 or more .....	.40
Kidder No. 2	Dies on orders of one or more .....	.65
	Dies on orders of 12 or more .....	.50
	Punches on orders of one or more .....	.70
	Punches on orders of 12 or more .....	.65
	Dies on orders of one or more .....	.85
	Dies on orders of 12 or more .....	.75

NOTE:—Drill size punches and dies 10c extra.

Prices of the M, N, P, R, S, T type punches and dies are for sizes from corner to corner within the radius of the largest round punch for each respective tool.

Largest round punch furnished with each respective tool:

No. 5 Jr., $\frac{9}{32}$ "

No. 7 Roller Bearing Punch, $\frac{7}{16}$ "

No. $7\frac{1}{2}$; 8-Imperial; 10, 11, 12, and 15 Ball
Bearing Punches, $\frac{1}{2}$ "

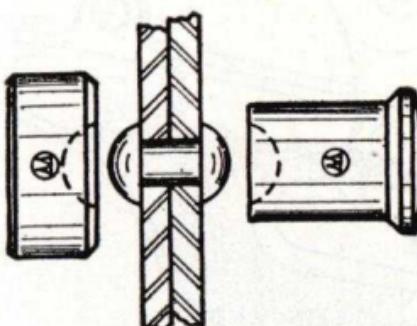
No. 16 and 17 Bench Punches, $\frac{9}{16}$ "

No. 20, 24, 25 Punches, $1\frac{1}{16}$ "

No. 40 Punch, 1"

Other special sizes quoted upon application.

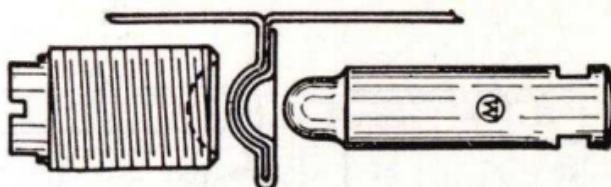
Rivet and Button Punches and Dies



We can supply from stock Riveting Punches and Dies.

Riveting Punch for No. 10, 11, 12.....	\$ 1.00
Riveting Die for No. 10, 11, 12.....	1.00
Riveting Punch for No. 20, 24, 25.....	1.25
Riveting Die for No. 20, 24, 25.....	1.25
Riveting Punch for No. 40.....	1.65
Riveting Die for No. 40.....	1.65

BE SURE TO STATE DIAMETER AND LENGTH OF RIVET YOU WISH TO USE.

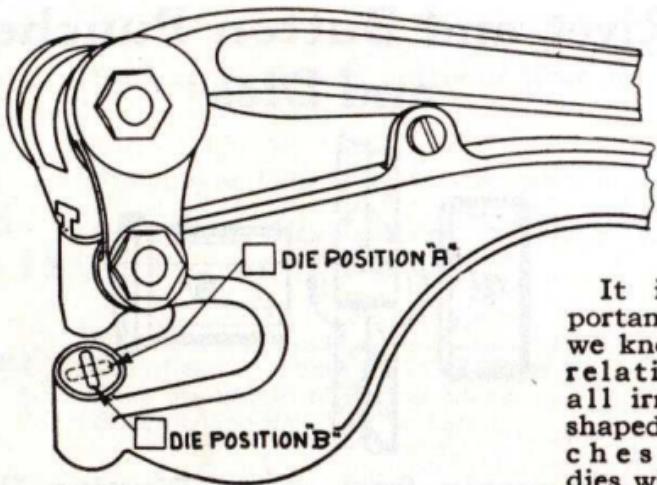


Button Punches and Dies can be furnished for all our level type punches, namely 5-7-7½-8-Imperial.

Price Button Punch for No. 5.....	\$.70
Price Button Die for No. 5.....	.70
Price Button Punch for No. 7.....	.80
Price Button Die for No. 7.....	.80
Price Button Punch for No. 7½.....	.90
Price Button Die for No. 7½.....	.80
Price Button Punch for No. 8.....	.90
Price Button Die for No. 8.....	.90

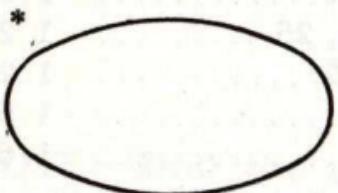
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

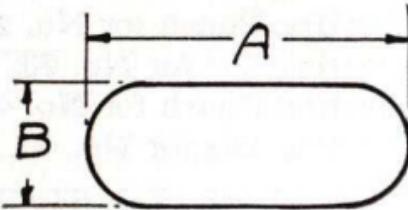


It is important that we know the relation of all irregular shaped punches and dies with the machine you

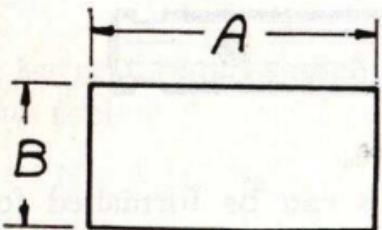
wish to use them, therefore specify desired position, A or B. We make Punches and dies of the following shapes to fit any machine. *Give radii of Type "L".



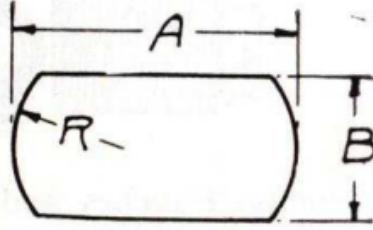
Type L quoted
on application



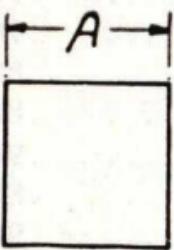
Type M



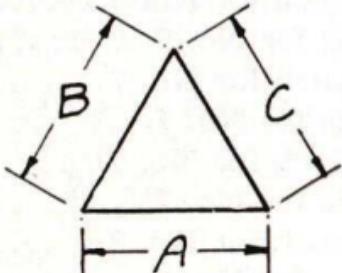
Type N



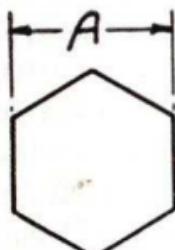
Type P



Type R



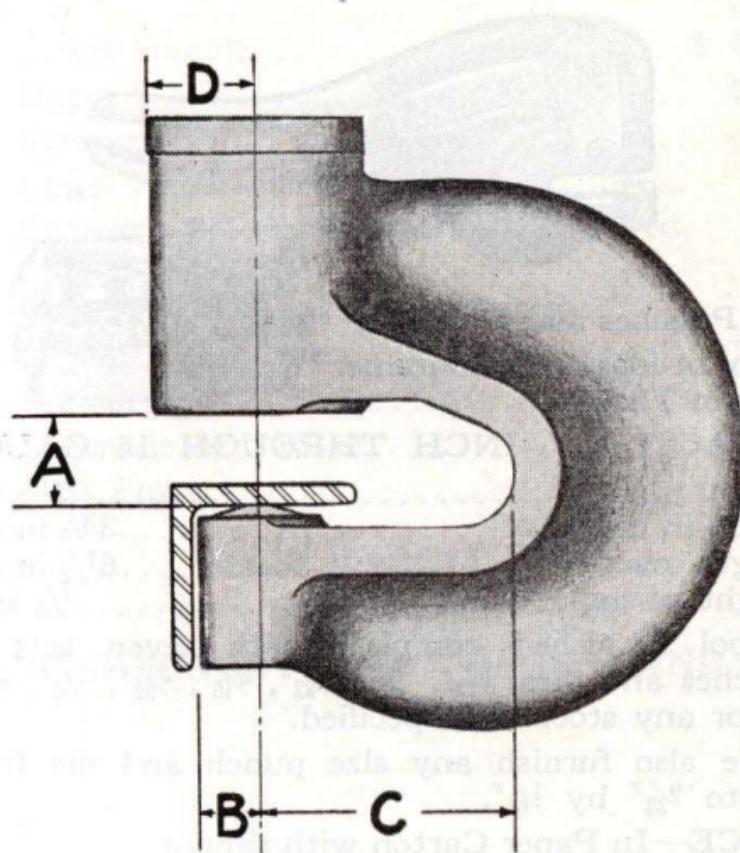
Type S



Type T

Special stripper plates must be used on all Ball Bearing Type Punches when irregular shaped punches and dies are used. This does not mean roller bearing punches. See page 6 for sizes.

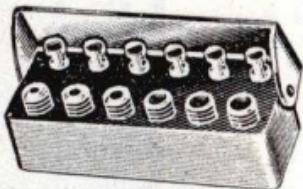
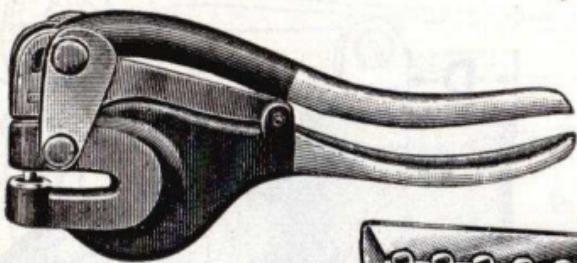
Punch Clearances



Punch	A	B	C	D	Punch	A	B	C	D
5	$\frac{3}{16}$	$1\frac{11}{32}$	$1\frac{1}{2}$	$1\frac{11}{32}$	15	$\frac{7}{8}$	$\frac{5}{8}$	$3\frac{3}{4}$	$1\frac{1}{8}$
7	$\frac{1}{4}$	$\frac{1}{2}$	$1\frac{3}{4}$	$\frac{3}{8}$	16	$\frac{1}{2}$	$\frac{7}{8}$	$3\frac{9}{16}$	$\frac{5}{8}$
$7\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	2	$\frac{3}{4}$	17	$\frac{1}{2}$	$\frac{7}{8}$	$6\frac{1}{4}$	$\frac{5}{8}$
8	$\frac{5}{16}$	$\frac{5}{8}$	$2\frac{1}{8}$	$\frac{9}{16}$	20	$1\frac{5}{16}$	$1\frac{5}{16}$	$2\frac{1}{8}$	$1\frac{1}{4}$
9	$1\frac{7}{16}$	$1\frac{11}{32}$	$1\frac{5}{8}$	$1\frac{11}{32}$	24	$2\frac{1}{8}$	1	$3\frac{1}{2}$	$1\frac{1}{2}$
10	$\frac{7}{8}$	$\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{3}{16}$	25	$2\frac{1}{2}$	$1\frac{5}{16}$	$8\frac{1}{4}$	$1\frac{3}{8}$
11	$\frac{7}{8}$	$\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{3}{16}$	26	$2\frac{1}{4}$	$1\frac{3}{4}$	18	$1\frac{3}{4}$
12	$\frac{7}{8}$	$\frac{5}{8}$	$2\frac{3}{16}$	$1\frac{3}{16}$	27	$2\frac{1}{4}$	$1\frac{3}{4}$	24	$1\frac{3}{4}$
14	$\frac{5}{8}$	$1\frac{11}{16}$	$2\frac{1}{2}$	$1\frac{1}{8}$	40	$2\frac{1}{8}$	$1\frac{7}{16}$	$3\frac{1}{2}$	$1\frac{13}{16}$

NOTE—The above figures are for our Standard Punches. We also make these Punches Special, with dimension "B" smaller. If you cannot use the above, write us, stating your requirements.

No. 5 Jr. Punch



6 Punches and Dies in a
Cannot-loose-out Container
One in Tool

CAPACITY $\frac{1}{4}$ -INCH THROUGH 16 GAUGE

Weight..... $2\frac{1}{2}$ lbs.
Punch in center of..... $3\frac{3}{4}$ inches
Length over all..... $8\frac{1}{2}$ inches
Height of gap..... $\frac{1}{4}$ inch

Tool furnished complete with seven sets of punches and dies, $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ ", $\frac{7}{32}$ ", $\frac{1}{4}$ ", and $\frac{9}{32}$ " or any stock size specified.

We also furnish any size punch and die from $\frac{1}{16}$ " to $\frac{9}{32}$ " by $\frac{1}{64}$ ".

PRICE—In Paper Carton with cannot
loose out container..... \$9.17
In Metal Box as shown..... 9.60
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET PAGES 1 AND 2



No. 5 Jr. Punch Parts

100 Lower Handle.....	\$ 4.00
101 Upper Handle.....	2.15
102 Eccentric Pin, 2 required, ea.....	.20
103 Lower Handle Screw.....	.18
104 Eccentric Side Link Washer, 4 required, ea.....	.15
105 Eccentric Side Link, 2 required, ea.....	.35
106 Eccentric Side Arm.....	2.20
107 Pressure Pin.....	.50
108 Eccentric Arm Rivet.....	.15
109 Cam Pin.....	.20

f. o. b. Rockford, Ill.

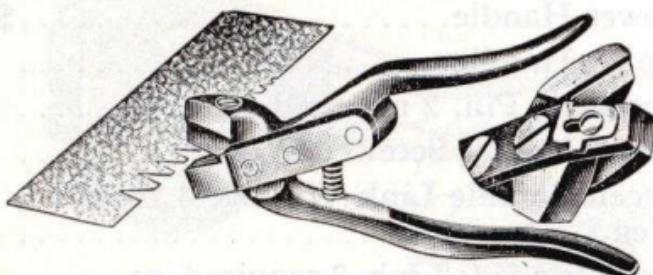
SEE DISCOUNT SHEET, PAGES 1 AND 2

We are the originators of this type of punch, and it still leads the world. We build tools which last longer. Be sure it is a WHITNEY No. 5 JR. PUNCH. Sold and carried in stock in every city in the United States, also Canada and England.

Be Sure the Letter  Is on ALL Your
PUNCHES AND DIES

*They Are Made in Our Own Factory
and Are Genuine*

No. 41 Hand Notcher



Capacity.....	20 gauge
Weight.....	1 pound
Price.....	\$ 5.35

This tool is for making notches of any depth up to $1\frac{3}{16}$ ". Features include: full opening in die to permit punchings to fall through, and double-duty adjustable depth gauge which does not project beyond nose of die. A clean-cutting, quick-action tool for notching out box corners, curved flanges, etc.

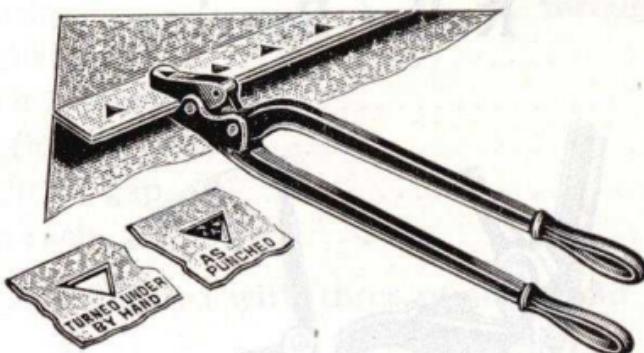
No. 41 Notcher Parts

A41-1	Lower Handle, long.....	\$1.50
A41-2	Upper Handle, short.....	1.25
A41-3	R. Lower Shear Blade.....	1.25
A41-4	L. Lower Shear Blade.....	1.25
A41-5	Spring Guide.....	.20
A41-6	Spring.....	.30
A41-7	Special Flat Head Machine Screw....	.15
A41-8	Upper Shear Blade.....	1.00
41-9	Upper Shear Blade Screw.....	.15
A41-10	Depth Gauge.....	.40
41-11	Gauge Screw.....	.15
A41-12	Pivot Bushing.....	.30

f.o.b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 23 Clip Punch



Capacity.....	3 thicknesses, 24 gauge or equal
Weight.....	6 pounds
Price.....	\$25.00

This tool is for clipping together duct work seams of any type, plain, folded, or overhanging. Punches out a triangular "ear" which, when folded down, gives a secure three-way lock. Flat-nosed jaws permit access to tight places. A fast, accurate, useful, durable tool for air conditioning and warm air heating system installers.

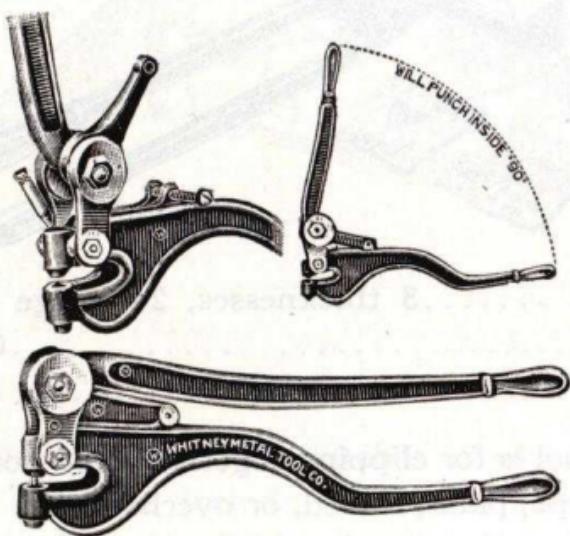
No. 23 Clip Punch Parts

B23-1A	Lower Handle.....	\$15.00
B23-2A	Upper Handle.....	10.00
A23-3	Upper Jaw.....	8.50
A23-4	Link.....	1.00
A23-5	5/16" Pin with Thread.....	.90
A23-6	7/16" Straight Pin.....	.40
A23-7	5/16" Straight Pin.....	.20
A23-8	Punch.....	2.25
A23-9	Die.....	1.50
23-10	5/16" Hex Half Nut SAE.....	.15
23-11	1/4" x 3/8" Socket Set Screw.....	.25
23-12	Punch or Die Set Screw.....	.15

f.o.b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Nos. 7, 7 $\frac{1}{2}$, 8-Imperial Punches Roller Bearing



The above type Punches are made in three sizes. Will work inside 90 degrees. Quick changing of Punches and Dies. No lever to become disengaged by moving too far in either direction. No cams to wear out. Stripping positive.

Sizes of Punches and Dies which can be furnished:

For the No. 7 Roller Bearing Punch—
 $\frac{1}{8}$ " to $\frac{7}{16}$ " by $\frac{1}{64}$ ".

For the No. 7 $\frac{1}{2}$ and No. 8 Imperial Punches—
 $\frac{1}{8}$ " to $\frac{1}{2}$ " by $\frac{1}{32}$ ".

Punches for the No. 7 $\frac{1}{2}$ Punch are the same as the ones used in our No. 8-Imperial Punch and the dies the same as used in our No. 7.

No. 7 Roller Bearing Punch

Capacity.....	1/4 in. through 1/8 in.
Weight.....	6 1/2 lbs.
Punch in center of.....	3 1/2 in.
Length over all.....	18 in.
Height of gap.....	1/2 in.
Price each.....	\$17.50

Tool furnished with three punches and dies.

No. 7 1/2 Roller Bearing Punch

Capacity.....	1/4 in. through 3/16 in.
Weight.....	10 1/2 lbs.
Punch in center of.....	4 in.
Length over all.....	22 in.
Height of gap.....	3/8 in.
Price each.....	\$21.25

Tool furnished with three punches and dies.

No. 8 Imperial Roller Bearing Punch

Capacity.....	1/4 in. hole through 1/4 in.
Weight.....	16 lbs.
Punch in center of.....	4 1/4 in.
Length over all.....	25 1/2 in.
Height of gap.....	3/8 in.
Price each.....	\$25.00

Tool furnished with three punches and dies.

f.o.b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See page 3, for prices on extra punches and dies.

No. 7 Roller Bearing Punch Parts

50 Lower Handle.....	\$ 8.00
51 Upper handle.....	5.00
52 Side Link bolts, 2 required, ea.....	.20
53 Lower handle screw.....	.18
54 Side links, 2 required, ea.....	.50
55 Side link nuts, 4 required, ea.....	.10
56 Eccentric Arm.....	3.10
57 Roller bearings, 48 req., 4c ea., per set..	.75
58 Eccentric cam, 2 required, ea.....	1.65
59 Cam pin, 2 required, ea.....	.10

No. 7½ Roller Bearing Punch Parts

946 Upper Punch Handle.....	\$ 6.50
947 Lower Punch Jaw Handle.....	10.00
948 Eccentric Arm.....	3.55
949 Eccentric Link, 2 required, ea.....	.55
950 Eccentric Cam, 2 required, ea.....	1.70
951 Eccentric Pin, 2 required, ea.....	.10
952 Roller Bearings, 28 req., 5c ea., per set..	.85
953 Roller Bearing Retainer, 4 required, ea..	.30
954 Roller Bearing Spacer, 6 required, ea....	.07
955 Eccentric Bolts, 2 required, ea.....	.25
956 Eccentric Bolt Nut, 4 required, ea.....	.15
957 Lower Handle Screw.....	.18
Complete roller bearings assembly, 2 required.....	1.50

Imperial Punch No. 8

25 Lower jaw handle.....	\$12.00
26 Upper lever handle.....	8.00
27 Eccentric bolt, 2 required, ea.....	.25
28 Cam pin, 2 required, ea.....	.10
29 Lower handle screw.....	.20
30 Side Link, 2 required, ea.....	.60
31 Roller Bearing Spacer, 4 required, ea....	.10
32 Eccentric Arm.....	4.00
33 Eccentric cam, 2 required, ea.....	1.70
34 Roller bearings, 24 req., 5c ea., per set..	.85
35 Roller bearing retainer, 4 required, ea....	.30
36 Eccentric Bolt Nuts, 4 required, ea.....	.20
Roller Bearing Assembly, 2 required, ea..	1.40

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra Punches and Dies, see page 3.

Universal Base for No. 7, No. 7½, and No. 8-Imperial Punches



Price No. 7 Base.....	\$ 5.00
Weight No. 7 Base.....	6½ lbs.
Price No. 7½ Base.....	\$ 5.50
Weight No. 7½ Base.....	8 lbs.
Price No. 8 Base.....	\$ 6.00
Weight No. 8 Base.....	9¾ lbs.

f. o. b. Rockford, Ill.

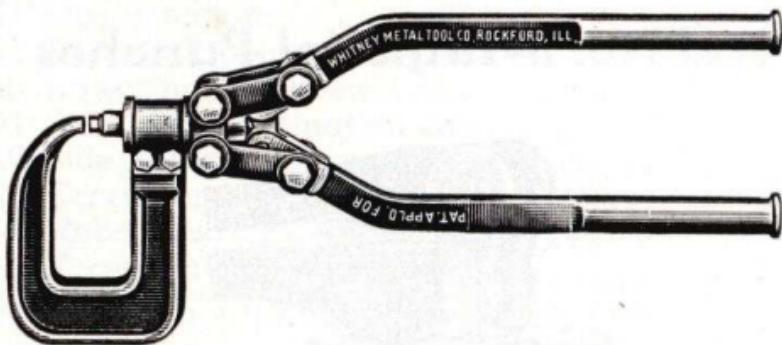
SEE DISCOUNT SHEET, PAGES 1 AND 2

These convenient swivel bases have a series of holes drilled and tapped in table for clamping on various locating stops in duplicating holes.

Size of holes tapped in Tables are for ¼"-20 U. S. S. Screws.

Size of Table for No. 7, 3"x5"
Size of Table for No. 7½, 3½"x5"
Size of Table for No. 8, 3¾"x5"

Aircraft Rivet Squeezer



Capacity $\frac{1}{8}$ " Aluminum Rivet.

Aircraft type. Spindle travel $1\frac{3}{16}$ ".

Prices complete with Jaw and Handles.

No. 1, throat depth $1\frac{3}{4}$ "	\$35.00
No. 2, throat depth $2\frac{1}{2}$ "	35.00
No. 3, throat depth $3\frac{1}{2}$ "	39.00
No. 4, throat depth $2\frac{7}{8}$ "	37.00
No. 5, throat depth 6"	45.00
Handle Assembly only	25.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The handle assemble is interchangeable with all jaws with exception of spindle. Therefore if just the jaws are desired, prices are as above less the handle assembly price of \$25.00. The jaws can be furnished with ball bearing spindles as well as lever type handles.

We have also made other special jaw designs; such as, Alligator, Snake Head, Pelican, and Crab.

Adjustment is provided so certain pressure may be obtained at end of spindle stroke, assuring rivet has been properly set up. Made from very high grade material and light, weighing hardly more than an ordinary wrench.

NOTE: Jaws Nos. 1, 2 and 3 have interchangeable spindle lengths, while No. 4 and No. 5 require individual spindle lengths. Therefore if changing from a No. 1 Jaw to a No. 4 or 5, it would require a different spindle, but the handle assembly otherwise is interchangeable throughout.

Aircraft Rivet Squeezer Parts

1072-Z	Handle, 2 required, each.....	\$2.00
1074-Z	Handle Link Bolt, 4 required, each...	.50
1075-Z	Handle Link Bolt Nut, 4 required, each.....	.20
1076-Z	Side Link, 4 required, each	1.00
1077-Z	Anvil Yoke.....	1.70
1078-Z	Yoke to Frame Bolt, 2 required, each.	.50
1079-Z	Yoke to Frame Bolt Nut, 2 required, each.....	.20
1085-Z	Spindle Spool.....	6.00
1086-Z	Spindle.....	4.60
1087-Z	Handle and Spindle Pins, 2 required, each.....	.20
1088-Z	Spindle Die.....	1.25
1089-Z	Spindle Die Washer.....	.25

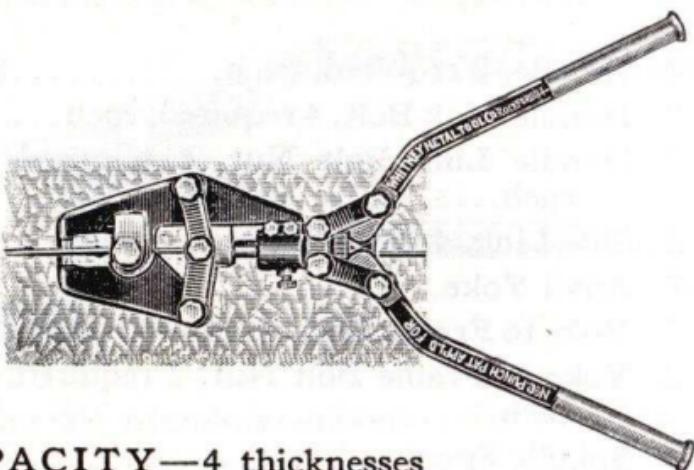
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2



Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

No. 9 Universal Button Punch



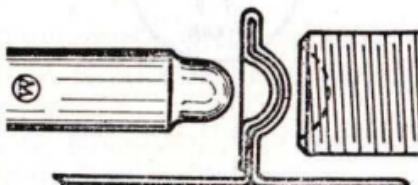
CAPACITY—4 thicknesses
of 18 gauge sheet metal.

The Jaws revolve to any desired position independent of the handles.

All parts Drop Forged and Hardened.

Weight.....	8½ lbs.
Depth of Throat.....	1¾ inch
Height of Throat.....	5/8 inch
Length overall.....	21½ inch
Price.....	\$33.50
Extra Punches or Dies, each.....	\$.90

f. o. b. Rockford, Ill.



This is the type of punching done by the button punch.

The button type punch is for indenting several pieces of metal together, used in a number of places in place of punching holes and riveting. Used largely for blow pipe and similar work. The jaws of this punch are set on a 30 degree angle to the left, this to allow for clear vision when working overhead, also to punch in close corners.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 9 Universal Button Punch Parts

1071 Lower Jaw.....	\$15.00
1072 Handle, 2 required, ea.....	3.50
1073 Upper Jaw.....	7.50
1074 Handle Link Bolts, 4 required, ea.....	.75
1075 Handle Link Bolt Nuts, 4 required, ea..	.15
1076 Jaw Links, 8 required, ea.....	.85
1077 Spindle Sleeve Yoke.....	3.35
1078 Spindle Adjusting Nut.....	.75
1079 Spindle Support and Operating Block..	1.75
1080 King Bolt and Nut.....	.50
1081 Jaw Link Bolt and Nuts (Upper).....	.75
1082 Jaw Link Bolt and Nuts (center and lower), ea.....	.75
1083 Punch.....	.90
1084 Die.....	.90
1085 Spindle Sleeve Spool.....	8.50
1086 Spindle.....	6.70
1087 Handle and Spindle Pins, 2 required, ea.....	.15
1088 Punch Set Screw.....	.10
1089 Die Set Screw.....	.10
1090 Yoke Thumb Screw.....	.30

f. o. b. Rockford. Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter



Is on ALL Your

PUNCHES AND DIES

*They Are Made in Our Own Factory
and Are Genuine*

No. 10 and 11 Ball Bearing Punches



CAPACITY $\frac{3}{8}$ -INCH THROUGH $\frac{1}{4}$ -INCH
IRON

Weight.....	8 $\frac{1}{2}$ lbs
Depth of throat.....	1 $\frac{5}{8}$ inches
Height of throat.....	$\frac{7}{8}$ inches
Length over all.....	19 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from $\frac{1}{8}$ " to $\frac{1}{2}$ " by $\frac{1}{32}$ ".

No. 11 PUNCH exact duplicate of No. 10 except tubular handles. See cut..... page 2

PRICE, either Tool..... \$25.00

BASE, material steel casting..... 2.50

RIVETING PUNCHES and DIES, Per Set. 2.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4, for prices on extra Punches and Dies.

ABOVE MACHINES WILL ALSO
DRIVE RIVETS

We also furnish a ratchet handle for the above machines, price \$8.50 subject to discount, on page 1.

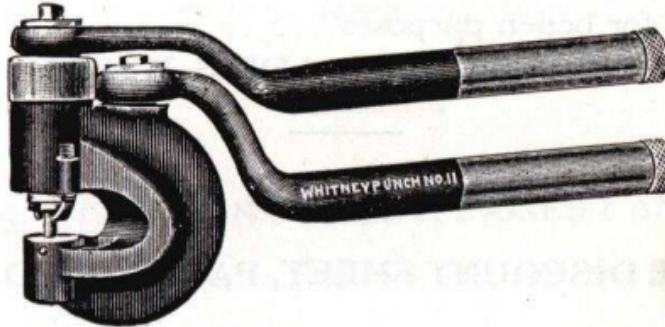
Base furnished with above makes it very practical for bench purposes.

No. 10 and 11 Ball Bearing Punch Parts

125	Punch body.....	\$ 8.35
126	Upper handle.....	1.85
127	Lower handle.....	1.85
128	Base, material cast steel.....	2.50
129	Base set screw, 4 required, ea.....	.15
130	Spindle.....	6.00
131	Handle washer, 2 required, ea.....	.15
132	Stripper Fingers, 2 required, ea.....	.25
133	Ball Bearings (20 in set) 8c ea., per set..	.75
134	Upper handle screw.....	.15
135	Stop collar.....	.80
136	Lower handle screw.....	.15
137	Dust cap.....	.70
138	Stripper finger set screw, 2 required, ea.	.15
139	Die set screw.....	.15
140	Punch holder.....	.70
141	Stop collar set screw, 3 required, ea.....	.15
142	Wrench, for punch holder.....	.35

f. o. b. Rockford, Ill.

No. 11 Ball Bearing Punch



The tubular handles are made so extra punches and dies can be carried in the handles, and is so designed the lower handle is in line with the throat which makes it faster when punching light material.

SEE DISCOUNT SHEET, PAGES 1 AND 2
For prices on extra punches and dies, see page 4.

**You cannot get away
from the fact that Ball
Bearings eliminate
friction**

No. 12 Ball Bearing Punch



CAPACITY $\frac{3}{8}$ -INCH THROUGH
 $\frac{1}{4}$ -INCH IRON

Weight.....	11 lbs.
Depth of throat.....	2 inches
Height of throat.....	2 inches
Length over all.....	18 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from $\frac{1}{8}$ " to $\frac{1}{2}$ " by $\frac{1}{32}$ ".

PRICE.....	\$30.00
BASE, for bench purposes.....	2.50
RIVETING PUNCHES and DIES, Per Set..	2.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for prices on extra punches and dies.

ABOVE MACHINE WILL ALSO
DRIVE RIVETS

We also furnish a ratchet handle for the above machine, price \$8.50 subject to discount on page 1.

Base furnished with above makes it very practical for bench purposes.

No. 12 Ball Bearing Punch Parts

150	Punch body.....	\$13.00
151	Upper handle.....	1.85
152	Lower handle.....	1.85
153	Spindle.....	6.00
154	Handle washer, 2 required, ea.....	.15
155	Stripper finger, 2 required, ea.....	.25
156	Ball bearings (20 in set), 8c ea., per set..	.75
157	Upper handle screw.....	.15
158	Stop Collar.....	.80
159	Lower handle screw.....	.15
160	Dust cap.....	.70
161	Stripper finger set screw, 2 required, ea.	.15
162	Die set screw.....	.15
163	Punch holder.....	.70
164	Stop collar set screw, 3 required, ea....	.20
165	Wrench, for punch holder.....	.35
166	Base.....	2.50
167	Set screw, 2 required, ea.....	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

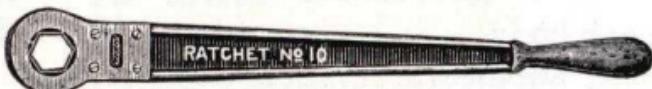
To Get Results Use

Genuine Punches and Dies Marked Thus:



There Is a Difference

No. 13 Ratchet Handle



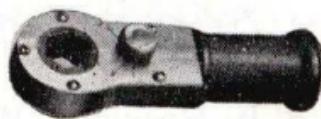
Length.....	19 inches
Weight.....	2½ lbs.
PRICE.....	\$ 8.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGE 1

Above ratchet handle can be used in connection with the No. 10, 11, and 12 Ball Bearing Punches.

No. 19 Ratchet Handle



Length.....	7 inches
Weight.....	3 lbs.
Price.....	\$16.65

f. o. b. Rockford, Ill.

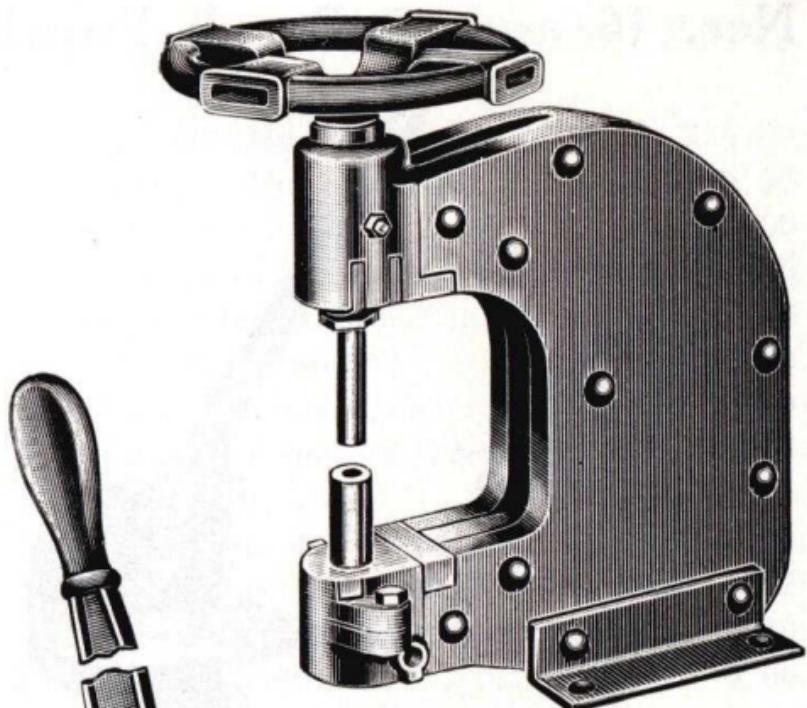
SEE DISCOUNT SHEET, PAGES 1

This ratchet handle can be used in connection with the following machines: Nos. 20, 24, 25, 26, 27 and 50.

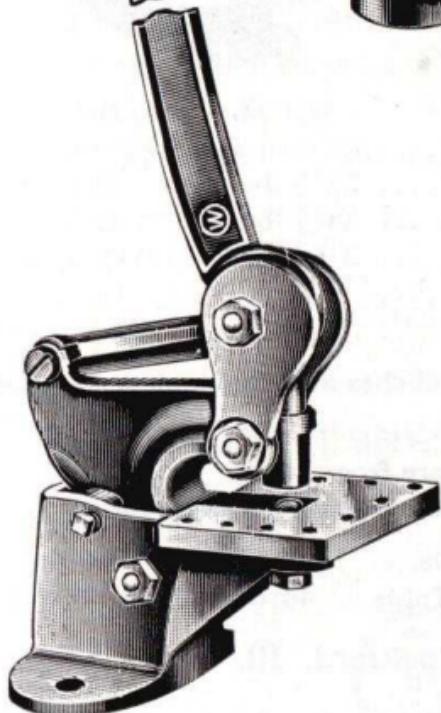
They will ratchet in either direction or can be used neutral.

A gas pipe or round bar can be inserted into the ratchet socket handle No. 19 for additional leverage.

These handles are made of first class material and workmanship is of the best.



A Riveter

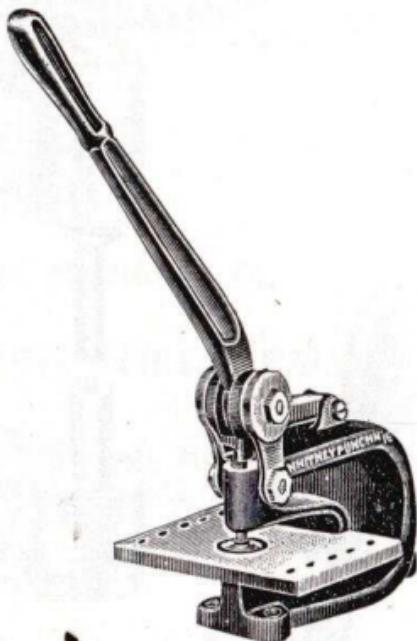
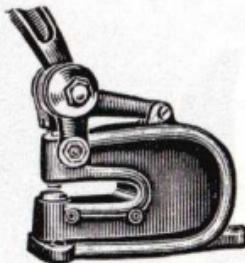


No. 8 with the Part of
Lower Handle removed

Two of
The Many
Special
Punches
Made to
Order

Let Us Help You
Solve Your
Punching Problems

Nos. 16 and 17 Bench Punches



	No. 16	No. 17
Capacity, Commercial iron.....	$\frac{3}{8}$ " thru $\frac{1}{4}$ "	$\frac{1}{4}$ " thru $\frac{1}{4}$ "
Weight with work table.....	32 $\frac{1}{2}$ lbs.	61 lbs.
Weight without work table.....	28 $\frac{1}{2}$ lbs.	57 lbs.
Depth of throat.....	3 $\frac{1}{2}$ inches	6 $\frac{1}{4}$ inches
Height of throat.....	$\frac{3}{8}$ inches	$\frac{1}{2}$ inch
Length of Handle.....	22 inches	22 inches

Tools shipped with three punches and dies; unless specified we ship $\frac{7}{32}$ ", $\frac{9}{32}$ ", $\frac{11}{32}$ ".

Stock sizes for the No. 16 are from $\frac{1}{8}$ " to $\frac{9}{16}$ " by $\frac{1}{32}$ ".

Stock sizes for the No. 17 are from $\frac{1}{8}$ " to $\frac{9}{16}$ " by $\frac{1}{32}$ ".

Price No. 16 with Work Table...	\$46.00	\$66.00
Price No. 16 without Work Table...	40.00	60.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for Prices on extra Punches and Dies.

These machines are ideal Bench Punches, having liberal throat clearance; very powerful; operator works in front of machine; convenient table has holes tapped for $\frac{1}{4}$ "x20 machine screws and is machined accurately on three sides and surface; size of table, 6"x8".

Nos. 16 and 17 Bench Punch Parts

A25 Punch Body, No. 16.....	\$26.00
B25 Punch Body, No. 17.....	46.00
A26 Lever Handle.....	8.00
A27 Eccentric Bolt, 2 required, ea.....	.25
A28 Cam Pin, 2 required, ea.....	.10
A29 Eccentric Arm Screw.....	.20
A30 Side Link, 2 required, ea.....	.60
A31 Roller Bearing Spacers, 4 required, ea..	.10
A32 Eccentric Arm.....	4.00
A33 Eccentric Cam, 2 required, ea.....	1.70
A34 Roller Bearings (24 in set), 5c ea., per set	.85
A35 Roller Bearing Retainer, 4 required, ea..	.30
A36 Punch Work Table.....	6.00
A37 Work Table Screws, 4 required, ea.....	.15
A38 Eccentric Bolt Nuts, 4 required, ea.....	.20
Roller Bearing Assembly, 2 required, ea.	1.40

All parts for Nos. 16 and 17 interchangeable except punch bodies.

f. o. b. Rockford, Ill.

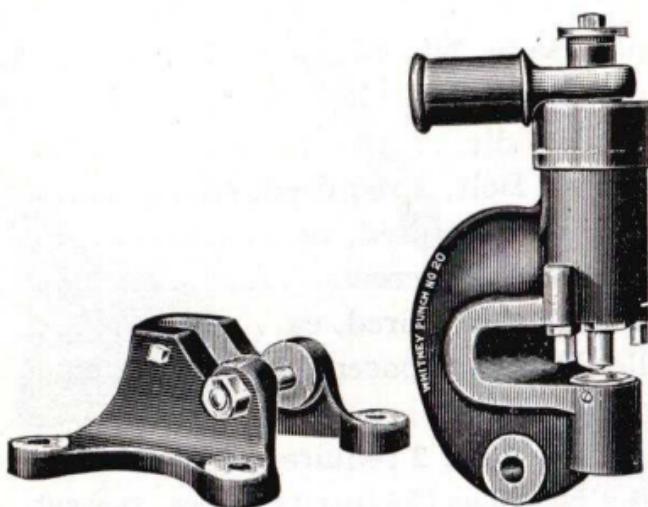
SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for Prices on Punches and Dies.



Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

No. 20 Ball Bearing Punch



**CAPACITY $\frac{1}{2}$ -INCH THROUGH
 $\frac{1}{2}$ -INCH IRON**

Weight.....	20 lbs.
Depth of Throat.....	2 inches
Height of Throat.....	$1\frac{3}{8}$ inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from $\frac{3}{16}$ " to $1\frac{1}{16}$ " by $\frac{1}{32}$ ".

PRICE.....	\$50.00
BASE, for bench purposes.....	3.35
RIVETING PUNCHES and DIES, Per Set..	2.50

f. o. b. Rockford, Ill.

Bevel Dies to compensate the bevel on I-Beam should be used when punching in flange of I-Beam.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for Prices on Extra Punches and Dies.

**ABOVE MACHINE WILL ALSO DRIVE
RIVETS**

It is made of alloy steel and heat treated throughout.

No. 20 Ball Bearing Punch Parts

A150	Punch body.....	\$24.00
A151	Spindle.....	13.35
A152	Operating handle.....	3.00
A153	Base.....	3.35
A154	Base binding screw.....	.60
A155	Base set screw, 2 required, ea.....	.15
A156	Stop collar.....	2.00
A157	Punch holder.....	1.25
A158	Stripper finger, 2 required, ea.....	.30
A159	Dust cap.....	1.65
A160	Ball bearings (32 in set), 12c ea., per set	.90
A161	Handle Washer.....	.15
A162	Die set screw.....	.15
A163	Handle Washer screw.....	.15
A164	Stop collar set screw, 3 required, ea...	.15
A165	Wrench, for punch holder.....	.80

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.

**Ball Bearing Punches
very often pay for them-
selves on the first job.**

Nos. 24 and 25 Ball Bearing Punches



	No. 24	No. 25
Capacity, Commercial iron.....	1/2" thru 3/8"	5/8" thru 3/8"
Weight.....	45 lbs.	120 lbs.
Depth of throat.....	3 1/2 inches	8 inches
Will punch in center of.....	7 inches	16 inches
Height of throat.....	4 inches	4 inches
Tools furnished with one punch and die of specified size. Stock sizes are from 3/16" to 11/16" by 1/32".		
PRICE.....	\$60.00	\$100.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 4 for prices on extra punches and dies.

Punch body is made of special steel casting.

Nos. 24 and 25 Ball Bearing Punch Parts

325 Punch Body, No. 24.....	\$23.50
301 Punch Body, No. 25.....	66.00
326 Spindle.....	16.00
327 Operating Handle.....	4.00
328 Dust Cap.....	1.65
329 Ball Race Sleeve.....	11.35
330 Ball Race Sleeve Set Screw, 3 required, ea.....	.15
331 Stripper Finger, 2 required, ea.....	.70
332 Stop Collar.....	2.00
333 Handle Washer.....	.15
334 Handle Washer Screw.....	.15
335 Stop Collar Screw, 3 required, ea.....	.15
336 Ball Bearings (38 in set), 12c ea., per set.	1.00
337 Punch Holder.....	1.25
338 Wrench for Punch Holder.....	.80
339 Stripper Finger Adapter, 2 required, ea..	.80

All parts for Nos. 24 and 25 punches interchangeable except punch bodies.

f. o. b. Rockford, Ill.

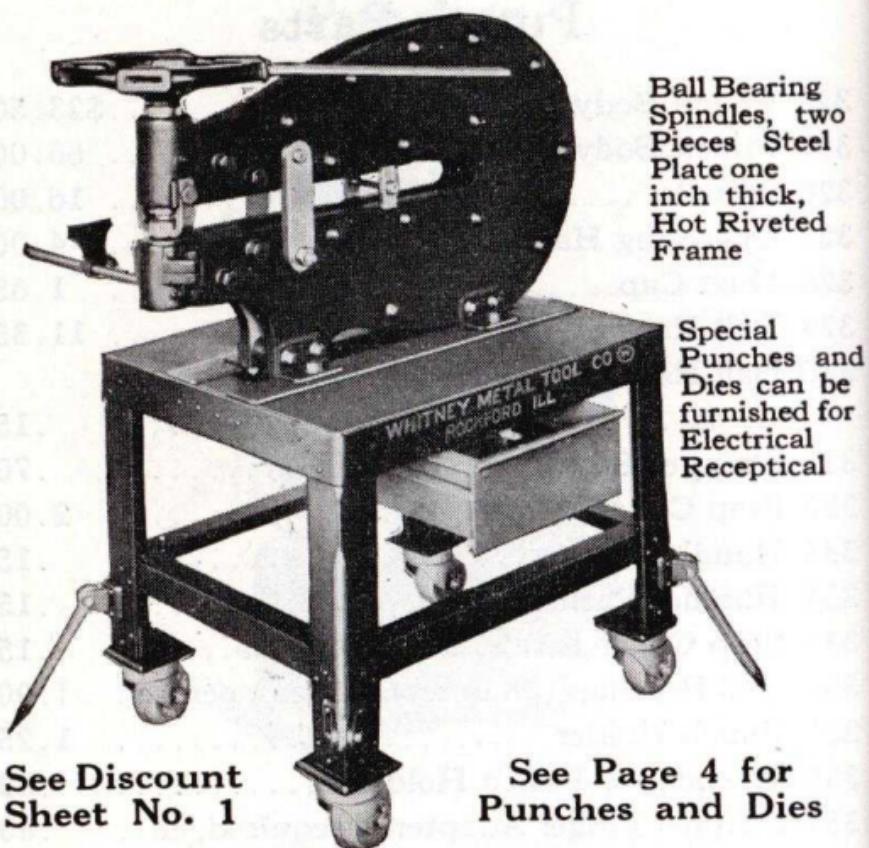
SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 4.



Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

Nos. 26 & 27 Deep Throat Punches



Ball Bearing
Spindles, two
Pieces Steel
Plate one
inch thick,
Hot Riveted
Frame

Special
Punches and
Dies can be
furnished for
Electrical
Receptical

See Discount
Sheet No. 1

See Page 4 for
Punches and Dies

The No. 26 has 18 in. Throat Depth

Capacity	Without Tie Plate, 2 in. hole, $\frac{3}{16}$ iron.
	With Tie Plate in position, $\frac{1}{2}$ in. hole, $\frac{3}{8}$ iron.
Weight	With Truck Base.....505 lbs.
	Without Truck Base.....300 lbs.
Price	With Truck Base.....\$240.00
	Without Truck Base.....170.00

The No. 27 has 24 in. Throat Depth

Capacity	Without Tie Plate, 2 in. hole, 16 gauge iron.
	With Tie Plate in position, $\frac{1}{2}$ in. hole, $\frac{3}{8}$ in. iron.
Weight	With Truck Base.....608 lbs.
	Without Truck Base.....400 lbs.
Price	With Truck Base.....\$280.00
	Without Truck Base.....210.00

Either Tool equipped with a one inch Punch and Die.

f. o. b. Rockford, Ill.

NOTE:—Both machines with Tie Plates in position have a 7 in. Throat Depth.

A Split Punch Coupler is required on all Punches over one inch in diameter. If No. 20 Punches and Dies are to be used it is necessary to purchase adaptors. See part list.

Nos. 26 and 27 Deep Throat Punch Parts

1010	Punch Frame No. 27, Complete.....	\$100.00
1011	Punch Head.....	30.00
1012	Punch Frame No. 26, Complete.....	90.00
1013	Die Bolster Plate.....	5.00
1014	Bolster Plate Holder Head.....	25.00
1015	Bolster Plate Cap Screws, 2 required, each.....	.15
1016	Punch Adaptor for No. 20 Punches..	6.00
1017	Spindle.....	20.00
1018	Spindle Ball Race Sleeve.....	12.00
1019	Spindle Ball Race Sleeve Set Screw, 2 required, ea.....	.15
1020	Dust Cap.....	1.65
1021	Stripper Fingers, 2 required, ea.....	2.00
1022	Stripper Finger Shoulder Screws, 2 required, ea.....	.20
1023	Stop Collar.....	2.00
1024	Stop Collar Screws, 3 required, ea.....	.15
1025	Operating Hand Wheel Washer.....	.15
1026	Operating Hand Wheel Washer Cap Screw.....	.15
1027	Ball Bearing (30 in set), 12c ea., per set.	.90
1028	Punch Coupler.....	2.00
1029	Die Adaptor for No. 20 or 40 Dies, ea.	4.00
1030	Spindle Ring Stop Collar.....	1.00
1031	Tie Rod Upper Pin.....	.50
1032	Tie Rod Lower Bolt.....	2.00
1033	Tie Rod Arm, 2 required, ea.....	2.00
1034	Depth Gage, complete.....	5.00
1035	Side Gage, complete.....	4.00
1036	Hand Wheel.....	9.00
1037	Hand Wheel Extension Flat Bar Handle.....	2.00
1038	Bolster Plate Die Set Screw.....	.15
1039	Reduction Collar Die Set Screw.....	.15
1040	Angle Iron Base, complete.....	70.00
1041	Bolster Plate Washer, 2 required, ea..	.15

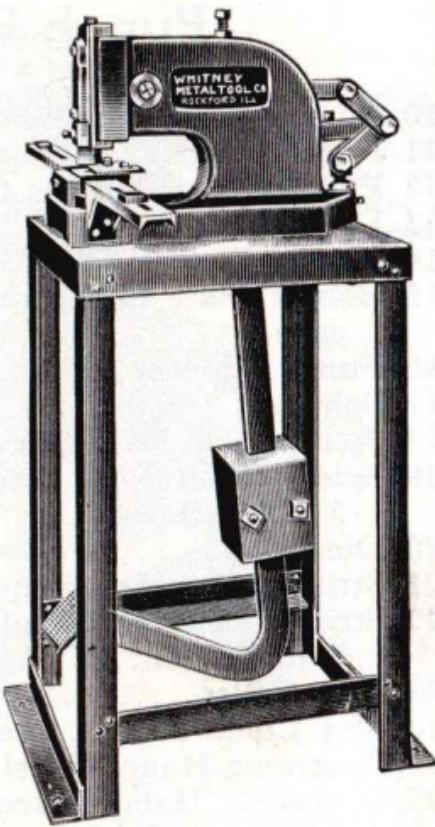
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 28 and 29 Foot Presses

\$90⁰⁰

Be sure to state shank diameter of punch and O. D. of die when ordering punches and dies.



	No. 28	No. 29
Capacity 2" Hole in 16 Gauge.....		
Stroke of Ram.....	$\frac{7}{8}$ "	$\frac{7}{8}$ "
Ram Adjustment.....	$\frac{3}{4}$ "	$\frac{3}{4}$ "
Punch Hole in Ram.....	1"	1"
Depth of Throat.....	7"	10"
Height of Throat.....	$4\frac{1}{4}$ "	$4\frac{1}{4}$ "
Slug Clearance Hole.....	$2\frac{1}{4} \times 4\frac{1}{2}$ "	$2\frac{1}{4} \times 4\frac{1}{2}$ "
Weight, Net.....	345 lbs.	385 lbs.
Shipping Weight.....	385 lbs.	430 lbs.

Price of machine with T Bolster Plates
Stripper Plate, one side and one
depth gauge, No. 8 Imperial Punch
Adaptor, No. 20 Die Adaptor and
 $\frac{1}{2}$ " Punch and Die as regular equip-
ment..... \$117.00 \$160.00

Price with above equipment with Double
Angle Notching Punch and Die..... \$142.00 \$185.00

f.o.b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5 for prices on extra punches and dies.

See Page 40 for prices on irregular shaped No. 28 style
punches and dies.

No. 28 Foot Press Parts

2801	Frame.....	\$50.00
2802	Ram.....	15.00
2803	Bolster Plate.....	10.00
2805	Counterweight,	2.50
2806	Foot Treadle Casting and Arm.....	2.50
2807	Foot Treadle Adjusting Casting, pair.....	2.00
2808	Gib for Ram.....	4.00
2809	Ram Operating Lever.....	10.00
2810	Treadle Yoke.....	3.50
2811	Treadle Connecting Links, 4 required, each.....	2.00
2812	Ram Adjusting Eye Bolt and Lock Nut.....	1.50
2813	Front Cover Plate.....	2.00
2814	Take-Up Wearing Plates, 6 required, each.....	1.35
2815	King Pin.....	1.50
2816	Foot Treadle Hinge Pin.....	.75
2817	Treadle Yoke Pin.....	.50
2818	Counterweight Bolts, 2 required, each.....	.35
2819	Connecting Link Bolts (upper or intermediate) each.....	.70
2820	Connecting Link Bolt (lower).....	.70
2821	Foot Treadle Bar.....	5.00
2822	Notching Punch.....	10.00
2823	Notching Die.....	15.00
2824	Angle Iron Stand.....	25.00
2825	Bolster Plate Screw, 2 required, each.....	.75
2826	Bolster Plate Wrench.....	.75
2827	Punch Coupling Nut.....	2.00
2828	Stripper Plate.....	3.00
2829	Front Cover Plate Screw, 2 required, each.....	.25

Extra Parts

2831	Side Gauges.....	\$ 3.40
2832	Side Gauge Bolts.....	.16
2833	Bolster Plate Gauges with bolts, 2 required, each	1.00
2834	Depth Gauge Casting.....	1.50
2835	Depth Gauge Bar.....	.90
2836	Punch Adaptor for No. 20 Punches, $\frac{7}{8}$ " I.D.....	5.00
2837	Die Adaptor for No. 20 dies, $1\frac{1}{4}$ " I.D.....	4.00
2838	Punch Adaptor for No. 8—Imperial Punches, $\frac{1}{2}$ " I.D.....	5.00
2854	Die Adaptor for No. 40, $2\frac{1}{8}$ " I.D.....	4.00

No. 29 Foot Press Parts

2901	Frame.....	\$80.00
2909	Ram Operating Lever.....	16.00
2910	Treadle Yoke.....	5.50
2911	Treadle Connecting Links, 4 required, each.....	3.50
2921	Foot Treadle Bar.....	8.00

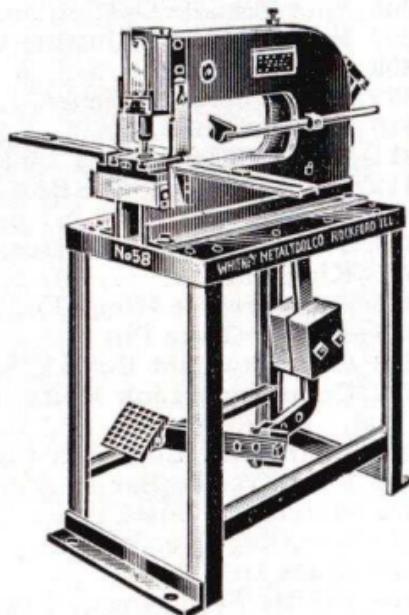
See No. 28 Foot Press Parts for other part prices as these are all interchangeable with the No. 29.

F. O. B. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Nos. 58 and 68 Deep Throat Foot Presses

Be sure to state shank diameter of punch and O. D. of die when ordering punches and dies.



	No. 58	No. 68
Capacity 2" Hole in 16 Gauge.....		
Stroke of Ram.....	1"	1"
Ram Adjustment.....	3/4"	3/4"
Punch Hole in Ram.....	1"	1"
Depth of Throat.....	18"	24"
Height of Throat.....	5 3/4"	5 3/4"
Slug Clearance Hole.....	3"x5"	3"x5"
Weight, Net.....	490 lbs.	533 lbs.
Shipping Weight.....	525 lbs.	585 lbs.

Price of machine with T Bolster Plates, Stripper Plate, one side and one depth gauge, No. 8 Imperial Punch Adaptor, No. 20 Die Adaptor and 1/2" Punch and Die as regular equip- ment.....	\$196.45	\$232.15
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Price with above equipment with Double Angle Notching Punch and Die....	\$221.45	\$257.15
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SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5 for prices on extra punches and dies.

See Page 40 for prices on irregular shaped No. 28 style punches and dies.

No. 58 Deep Throat Foot Press Parts

C58-3	Frame.....	\$85.00
B29-2	Ram.....	15.00
A28-3	Bolster Plate.....	10.00
A58-16	Counterweight.....	5.00
A28-41	Treadle Toe Plate.....	2.50
A28-8	Gib.....	4.00
B58-2	Ram Lever.....	16.00
A28-10	Treadle Yoke.....	3.50
A28-11	Connecting Link, 2 required, Upper, each...	2.00
A28-11-1	Connecting Link, 2 required, Lower, each...	2.00
A28-12	Ram Adj. Eye Bolt and Lock Nut.....	1.50
A28-13	Front Cover Plate.....	2.00
A28-14	Wearing Plates, 5 required $\frac{1}{8}$ " thick, each..	1.35
A28-43	Wearing Plates, 2 required $\frac{1}{16}$ " thick, each..	1.25
A58-6	Ram Lever (King) Pin.....	3.00
A58-4	Foot Treadle Hinge Pin.....	1.00
A58-5	Treadle Yoke Pin.....	.75
28-47	Counterweight Bolts (2 required), each.....	.35
A28-19	Connecting Link Bolts (2 required, Upper and Inter.), each.....	.70
A28-20	Connecting Link Bolt (Lower).....	.70
A68-4	Vertical Foot Lever.....	7.00
A28-29	Front Cover Plate Screws (2 required), each	.25
C58-9	Angle Iron Stand.....	30.00
A58-7	Foot Treadle Arm.....	5.00
B58-10	Stripper.....	4.00
28-48	Bolster Plate Screw (2 required), each.....	.75
A28-39	Bolster Plate Screw Washer (2 required) ea.	.20
A20-7	$1\frac{1}{16}$ and 1" Double End Wrench.....	.75
A58-15	Tie for Pedal.....	2.50
A58-19	Bushings for Ran. Lever Pin (2 required), ea..	1.50
A29-4	Punch Holder.....	5.00

EXTRA PARTS

A2854	Die Adaptor for No. 40 Dies.....	\$4.00
A58-11	No. 8 Imperial Punch Adaptor.....	\$6.50
A58-12	No. 20 Punch Adaptor.....	6.50
A58-13	No. 28 Punch Adaptor.....	6.50
A28-49	Die Adaptor for No. 20 Dies.....	4.00
A28-50	Notching Punch.....	10.00
A28-51	Notching Die.....	15.00
B28-31	Side Gauge.....	3.40
28-52	Side Gauge Bolts (2 required), each.....	.16
A28-33	Bolster Plate Gauge W/Bolts (2 required), ea.	1.00
A28-34	Depth Gauge Casting.....	1.50
A28-38	Depth Gauge Bar.....	.90
A58-8	Back Gauge Rod.....	1.00

NO. 68 DEEP THROAT FOOT PRESS PARTS

C68-1	Frame.....	110.00
A68-3	Ram Lever.....	22.00
A68-4	Vertical Foot Lever.....	7.00
A68-5	Pedal Bar.....	6.00
A68-6	Pedal Bar Tie Brace.....	3.50
C68-8	Angle Iron Stand.....	50.00

EXTRA PARTS

A67-7	Back Gauge Rod.....	1.50
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See No. 58 Foot Press Parts for other part prices as these are all interchangeable with the No. 68.

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SEE DISCOUNT SHEET, PAGES 1 AND 2

Nos. 28, 29, 58, 68 Style, Square and Irregular Shaped Punches and Dies

Punches, Type N, P, R, S shown on page 8, within 1" circle.....	\$3.15
Punches, Type M, T shown on page 8, within 1" circle.....	3.85
Punches, Type N, P, R, S shown on page 8, within 1 1/4" circle.....	3.75
Punches, Type M, T shown on page 8, within 1 1/4" circle.....	4.35
Punches, Type N, P, R, S shown on page 8, within 2" circle.....	4.50
Punches, Type M, T shown on page 8, within 2" circle.....	6.00
Punches, Type N, P, R, S shown on page 8, within 2 1/2" circle.....	6.00
Punches, Type M, T shown on page 8, within 2 1/2" circle.....	7.00
Punches, Type N, P, R, S shown on page 8, within 3" circle.....	7.00
Punches, Type M, T shown on page 8, within 3" circle.....	8.00

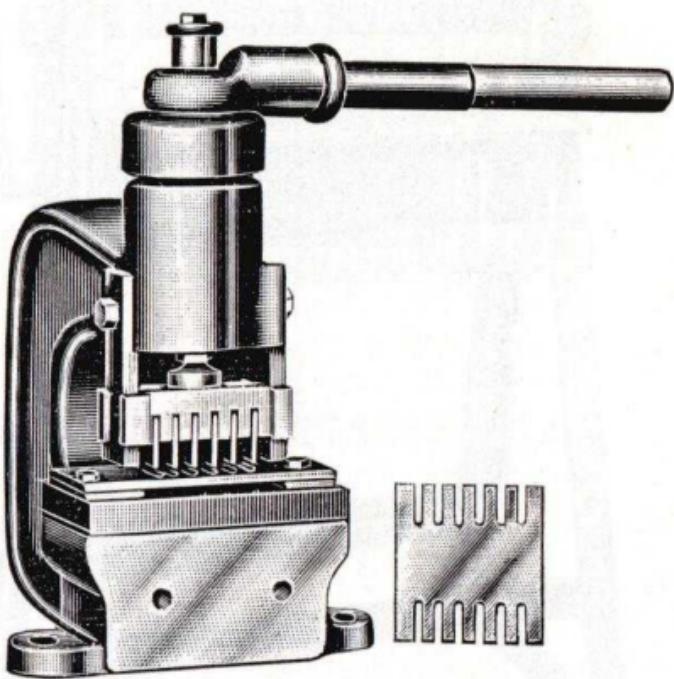
***PUNCHES FURNISHED WITH SPECIAL SHEAR QUOTED UPON APPLICATION.**

***PUNCHES AND DIES WITH DIMENSION LESS THAN $\frac{1}{8}$ " WILL BE QUOTED UPON APPLICATION.**

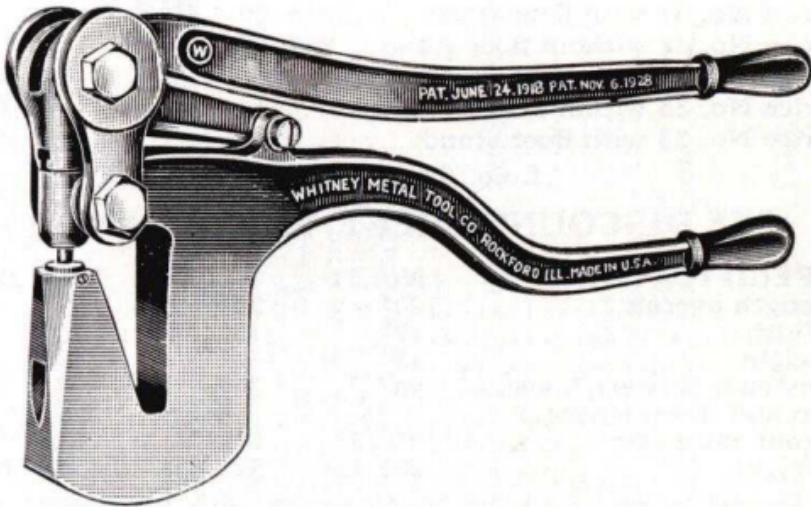
Dies, Type N, P, R, S, 1 1/4" O.D. shown on page 8	2.50
Dies, Type M, T, 1 1/4" O.D. shown on page 8.....	3.00
3/16" wall is necessary on 1 1/4", O.D. Dies.	
Dies, Type N, P, R, S, 2 1/8" O.D. shown on page 8..	3.55
Dies, Type M, T, 2 1/8" O.D. shown on page 8.....	4.05
Dies, Type N, P, R, S, 2 3/4" O.D. shown on page 8..	6.00
Dies, Type M, T, 2 3/4" O.D. shown on page 8.....	7.00
5/16" wall is necessary on 2 1/8" and 2 3/4" O.D. Dies.	
Dies, Type N, P, R, S, 3 3/4" O.D. shown on page 8..	10.00
Dies, Type M, T, 3 3/4" O.D. shown on page 8.....	12.00
3/8" wall is necessary on 3 3/4" O.D. Dies.	
*Special Bolster required for all dies larger than 2 3/4" O.D.....	15.00

***NET f.o.b. Rockford, Ill.**

Two of the Many Special Punches Made to Order



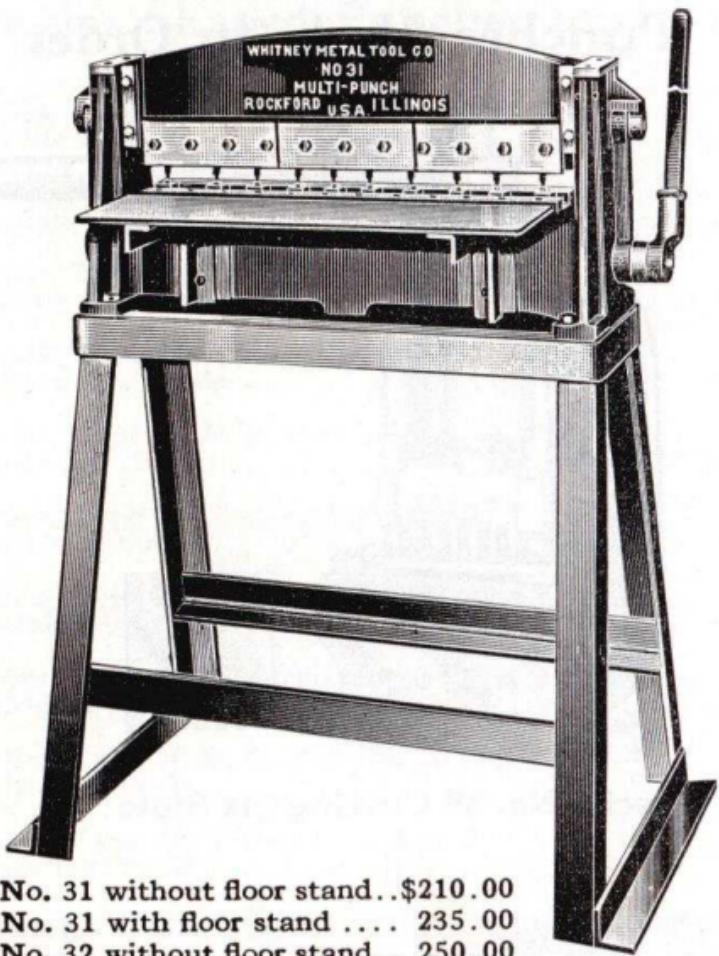
Special No. 49 Cutting Six Slots



Special No. 8 Imperial Punch

**Let Us Help Solve
Your Punching Problems**

Multiple Punches Nos. 31, 32, 33



Price No. 31 without floor stand.. \$210.00

Price No. 31 with floor stand 235.00

Price No. 32 without floor stand.. 250.00

Price No. 32 with floor stand..... 275.00

Price No. 33 without floor stand..... 290.00

Price No. 33 with floor stand..... 325.00

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SEE DISCOUNT SHEET, PAGES 1 AND 2

SPECIFICATIONS	No. 31	No. 32	No. 33
Length overall.....	29"	36"	42"
Width.....	12"	12"	13"
Height.....	13"	14"	15"
Distance between housing....	24 1/2"	31"	37"
Up and down stroke.....	5/8"	5/8"	5/8"
Front table size.....	6"x25"	6"x31"	6"x37"
Weight.....	280 lbs.	325 lbs.	375 lbs.

Capacity ten $\frac{1}{4}$ " holes in 18 gauge with one stroke of operating handle.

Standard equipment consists of 10 round punches and dies of specified size, 10 punch holders, 10 die holders, and one removable bolster plate. Stock sizes of punches and dies are from $\frac{1}{16}$ " to $\frac{1}{4}$ " by $\frac{1}{16}$ ". No. 5 type punches and dies.

Press brake dies can be furnished as well as shear blades.

Made of very best material throughout, accurately machined. Suitable for production machines. Carried in stock.

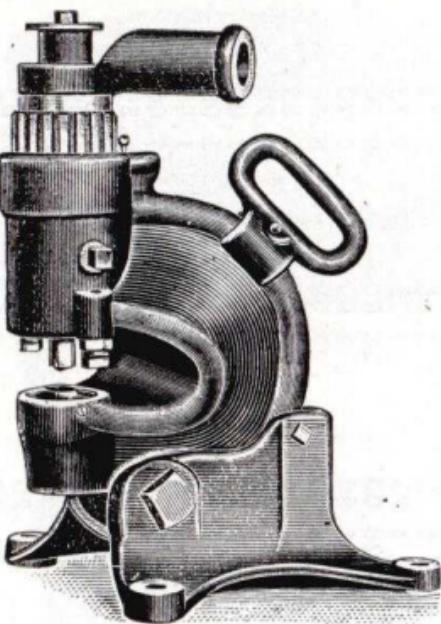
Multiple Punch Parts

	No. 31	No. 32	No. 33
3101 Lower Base	\$105.00	\$115.00	\$125.00
3102 Upper Ram	65.00	75.00	85.00
3103 Bolster Plate	22.00	25.00	30.00
3104 Die Plate Holder	5.00	6.00	7.00
3105 Side Links	2.00	2.00	2.00
3106 Punch Holder	1.75	1.75	1.75
3107 Die Holder	1.75	1.75	1.75
3108 Cam Shaft	26.00	28.00	30.00
3109 Angle Iron Work Table Support	1.00	1.00	1.00
3110 Punch Holder Plates	5.00	7.00	8.00
3111 Side Link Wrist Pin	1.25	1.25	1.25
3112 Slide Top Plate Support	1.25	1.25	1.25
3113 Gibs, 2 required, each	1.00	1.00	1.00
3114 Ram Guide Plate	1.00	1.00	1.00
3115 Cam Shaft Collar	1.00	1.00	1.00
3116 Stripper Plate	5.00	6.00	7.00
3117 Punch and Die Holder Set Screw Wrench .....	.50	.50	.50
3118 Bench Stand	35.00	37.00	39.00
3119 Handle	4.00	4.00	4.00
3120 Work Table	4.00	5.00	6.00
3121 Ram Guide Screw .....	.20	.20	.20
3122 Gib Adjusting Screw .....	.20	.20	.20
3123 Die Plate Holder Screw .....	.30	.30	.30
3124 Punch Plate Holder Screw .....	.30	.30	.30

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 40 Ball Bearing Punch



CAPACITY $\frac{5}{8}$ -INCH THROUGH
 $\frac{5}{8}$ -INCH IRON

Weight.....	87 lbs.
Depth of throat.....	$3\frac{1}{2}$ inches
Height of throat.....	2 inches

Tool furnished complete with one punch and die of specified size. We furnish any size punch and die from $\frac{3}{8}$ " to 1" by $\frac{1}{16}$ ".

PRICE, without base.....	\$152.00
BASE, for bench purposes.....	8.00
RIVETING PUNCHES and DIES, Per Set	3.30

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5, for prices on punches and dies.

Drop Forged Punch Body.

Bevel Dies to compensate the bevel on I-Beam should be used when punching in flange of I-Beam.

No. 40 Ball Bearing Punch Parts

200	Punch body.....	\$74.00
201	Base.....	8.00
202	Spindle.....	26.65
203	Ball race sleeve.....	16.00
204	Ball race sleeve set screw, 2 required, ea..	.15
205	Punch holder.....	2.00
206	Ratchet dog and screw.....	2.00
207	Operating handle.....	4.00
208	Ball retainer.....	8.00
209	Ratchet head.....	9.35
210	Base binding screw.....	.80
211	Base set screw, 2 required, ea.....	.15
212	Die set screw, 2 required, ea.....	.15
213	Ratchet head screw, 3 required, ea.....	.15
214	Handle washer.....	.15
215	Handle washer screw.....	.15
216	Stripper finger, 2 required, ea.....	.45
217	Ball bearings (62 in set), 12c ea., per set.	1.80
218	Wrench, for punch holder.....	1.40
219	Carrying Handle.....	5.00
220	Ratchet Dog Spring.....	.25

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

For prices on extra punches and dies, see page 5.

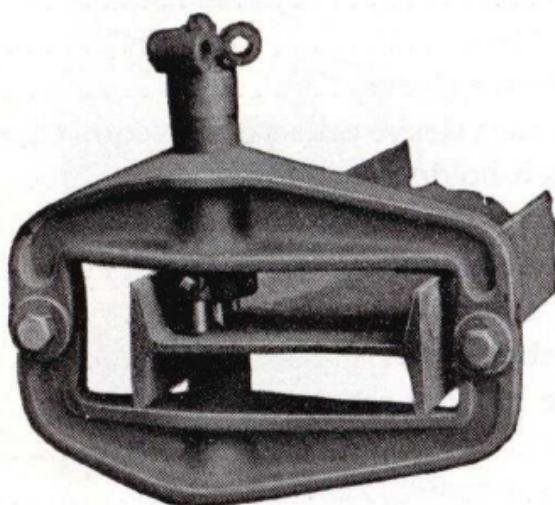
To Get Results Use

Genuine Punches and Dies Marked Thus:



There Is a Difference

No. 40-A and 40-B Ball Bearing Punches



40-A Capacity $\frac{3}{8}$ -Inch Hole In $\frac{3}{8}$ -Inch Iron
Weight.....57 lbs.

Will punch in center of 6" I-Beam.

This machine is shipped complete with one punch and die of specified size. Stock size punches and dies from $\frac{1}{4}$ " to $\frac{9}{16}$ " by $\frac{1}{32}$ ".

Price.....\$75.00

40-B Capacity 1-Inch Hole in $\frac{1}{2}$ -Inch Iron
Weight.....137 lbs.

Will punch in center of a 12" I-beam.

This machine is shipped complete with one punch and die of specified size. Stock size punches and dies from $\frac{3}{8}$ " to 1" by $\frac{1}{16}$ ".

Price.....\$165.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

See Page 5, for prices on extra punches and dies.

Frame is made of cast steel, all wearing parts are hardened.

If the I-Beam is fastened at each end, remove one hinge bolt to open punch.

No. 40-A Ball Bearing Punch Parts

420 Frame, punch side.....	\$16.00
421 Frame, die side.....	16.00
422 Hinge bolt, 2 required, each.....	.35
423 Ball race sleeve.....	15.00
424 Ball race sleeve set screw, 2 required, each	.15
425 Spindle.....	14.00
426 Ball bearings (32 in set), 12c ea., per set.	.90
427 Operating handle.....	3.00
428 Operating handle washer.....	.15
429 Operating handle washer screw.....	.15
430 Stripper finger, 2 required, each.....	.80
431 Die set screw.....	.15
432 Punch holder.....	1.25
433 Dust cap.....	1.65
434 Stop Collar.....	2.00
435 Stop collar screw, 3 required, each.....	.15
436 Wrench, for punch holder.....	.80

No. 40-B Ball Bearing Punch Parts

401 Frame, punch side.....	\$48.00
402 Frame, die side.....	48.00
403 Hinge bolt, 2 required, each.....	.35
404 Ball race sleeve.....	16.00
405 Ball race sleeve screw, 2 required, each...	.15
406 Spindle.....	26.65
407 Ball bearings (62 in set), 12c ea., per set.	1.80
408 Punch holder.....	2.00
409 Socket handle.....	4.65
410 Handle washer.....	.15
411 Handle washer, screw.....	.15
412 Stripper finger, 2 required, each.....	.45
413 Ratchet dog.....	2.00
414 Ratchet head.....	9.35
415 Die set screw.....	.15
416 Ratchet screw, 3 required, each.....	.15
417 Wrench, for punch holder.....	1.40

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SEE DISCOUNT SHEET, PAGES 1 AND 2

Rivet Sets



WHITNEY rivet sets are drop-forged from the highest grade steel available, shaped and made to satisfactorily fill every requirement of hard service and abuse. Specially adapted for workers in copper, brass, sheet steel, etc. THE SAME DEGREE OF ACCURACY AND WORKMANSHIP USED IN ALL WHITNEY TOOLS WILL BE FOUND IN WHITNEY RIVET SETS.



Size	Size Hole, Inches	Size Drill, Gauge No.	For Iron Rivets Lbs.	For Copper Rivets Nos.	For Copper Rivets Ins.	Price Each
00	$\frac{5}{16}$	$\frac{5}{16}$	14 & 16	.....	.....	\$1.10
0	$\frac{9}{32}$	$\frac{9}{32}$	10 & 12	5	$\frac{1}{4}$	1.10
1	$\frac{15}{64}$	$\frac{15}{64}$	7 & 8	6	$\frac{7}{32}$	.85
2	.2130	3	6	7	$\frac{8}{16}$	.85
3	.1910	11	4 & 5	8	$\frac{5}{32}$	.70
4	.1660	19	3 & $3\frac{1}{2}$	9	$\frac{9}{64}$	.70
5	.1495	25	2 & $2\frac{1}{2}$	10 & 11	$\frac{1}{8}$	.55
6	.1405	28	$1\frac{1}{2}$ & $1\frac{3}{4}$	12	$\frac{7}{64}$	.55
7	.1285	30	1 & $1\frac{1}{4}$	13 & 14	$\frac{3}{32}$	.45
8	.1100	35	10 & 12 Oz.	15	$\frac{3}{32}$	.45

f. o. b. Rockford, Ill.

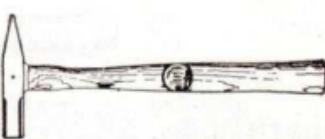
SEE DISCOUNT SHEET, PAGES 1 AND 2

Hammers

Drop Forged Alloy Steel, Highly Finished Head,
Hickory Handle



Setting Hammers



Riveting Hammers

No.	Face Size	Weight Oz.	Price Each	No.	Face Size	Weight Oz.	Price Each
0	9/16"	4	\$1.60	0	9/16"	4	\$1.60
2	3/4"	10	1.60	2	3/4"	10	1.60
3	13/16"	12	1.80	3	13/16"	12	1.80
4	7/8"	15	1.80	4	7/8"	15	1.80

Handles Only.....40c Each.

F. O. B. ROCKFORD, ILL.

SEE DISCOUNT SHEET, PAGES 1 AND 2



Beveled
Riveting Hammers



Square Face
Setting Hammers



DESIGN:—Whitney hammers are uniformly balanced for perfect striking power and tested beyond the average physical strength. Special shoulder for handle protection, longer bearing for perfect handle fit and decisively more clearance between hammer head and handle. Features found only in WHITNEY hammers.

MATERIAL:—Head, drop forged alloy steel properly heat treated and highly finished. Face will not chip or become mushroomed. The handles are of select second growth hickory air dried and are shaped to the hand for comfort and accurate striking power.

Extra handles with wedge as regular equipment. No fitting required. State size of hammer when ordering handles.

Scratch Awl—A1

Drop Forged



Length.....	9 inches
Weight.....	6 oz.
Price, each.....	\$ 1.25

Made from special high grade steel.

This is not only a Scratch Awl, but a drift pin as well for lining up holes.

Made right—will take lots of punishment.

Whitmetal Scratch Pin



Diameter.....	$\frac{3}{8}$ inch
Length.....	8 inches
Weight.....	3 oz.
Price, each.....	\$.40
Price, in lots of five.....	1.70
Price, in lots of twelve, each.....	.30

These Scratch Pins are made from high grade tool steel.

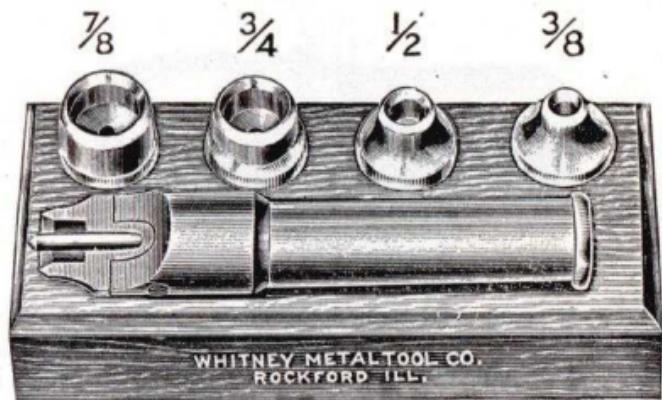
f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

Changeable Handle Hollow Punch

Self Centering Locating Spring Point



Hollow Punch Set No. 1

Complete in wood case and handle with punch

Bit sizes.....	$\frac{3}{8}''$	$\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{3}{4}''$	$\frac{7}{8}''$
Prices, per single bit..	\$.60	\$.75	\$.90	\$ 1.10	\$ 1.25
Per set.....	\$6.00	Handle only	\$2.10		
Centering Point and Spring.....				.25	

Hollow Punch Set No. 2

Complete in wood case and handle with punch

Bit sizes.....	1'	$1\frac{1}{4}'$	$1\frac{1}{2}'$	$1\frac{3}{4}'$	2'
Prices, per single bit..	\$1.50	\$1.65	\$2.00	\$2.30	\$2.70
Per set.....	\$14.00	Handle only.....	\$4.20		
Centering Point and Spring.....				.50	

Hollow Punch Set No. 3

Complete in wood case and handle with punch

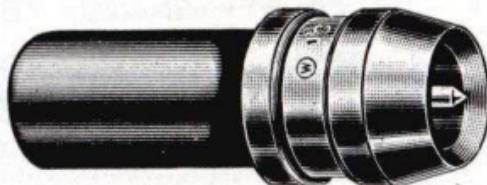
Bit sizes.....	$2\frac{1}{4}''$	$2\frac{1}{2}''$	$2\frac{3}{4}''$	3"
Prices, per single bit.....	\$3.50	\$3.85	\$4.20	\$4.50
Per set.....	\$19.00	Handle only.....	\$4.20	
Centering Point and Spring.....				.50

F. O. B. Rockford

SEE DISCOUNT SHEET, PAGES 1 AND 2

One Piece Hollow Punch No. 4

Self Centering Spring Point



Drop Forged

Diameter of Handle..... $1\frac{3}{8}$ inches
Length overall..... $4\frac{3}{4}$ inches
Diameter of Spring Plunger..... $\frac{1}{4}$ inch

Can be furnished in sizes from $\frac{7}{8}$ " to $1\frac{5}{8}$ " by $\frac{1}{16}$ " variation.

Price $\frac{7}{8}$ " to $1\frac{1}{4}$ ".....	\$ 3.50
Price $1\frac{1}{4}$ " to $1\frac{5}{8}$ ", inclusive.....	3.75
Centering Point and Spring.....	.50

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter



Is on ALL Your

PUNCHES AND DIES

*They Are Made in Our Own Factory
and Are Genuine*

Octagon Handle Solid Punch Set No. 0



Above includes ten punches to set in sizes from $\frac{1}{8}$ " to $1\frac{3}{32}$ " by $\frac{1}{32}$ " variation.

Made from high grade tool steel.

Price per set.....	\$5.85
One or more, each.....	.60
In lots of 12 or more.....	.50

Round Handle Solid Punches No. 00



Diameter of handle.....	$\frac{5}{8}$ inch rd.
Length overall.....	6 inches
Price, each.....	\$.65
Price, in lots of 12 or more, each.....	.50

f. o. b. Rockford, Ill.

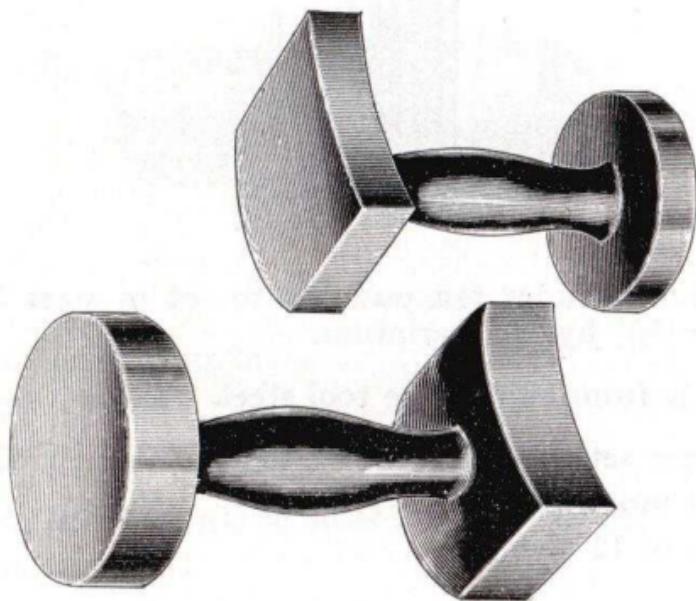
SEE DISCOUNT SHEET, PAGES 1 AND 2

Furnished and carried in stock, sizes from $\frac{1}{8}$ " to $\frac{1}{2}$ " by $\frac{1}{32}$ " variation.

Ordinary punches of this kind are made from octagon shape steel, but the above punches are made from $\frac{5}{8}$ " round steel. You will be surprised how well balanced and the different grip when using these punches.

Dolly Bars

Drop Forged, Hardened,
All Surfaces Machined



Price No. 21 small Dolly Bar.....	\$ 3.35
Price No. 22 large Dolly Bar.....	5.00
Weight small Dolly Bar.....	3 lbs.
Weight large Dolly Bar.....	7½ lbs.

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The large Dolly is intended for the shop and the small one for the tool box. They can be used in seven different positions and are so designed they will not roll when laid lengthwise on the bench.

Tee Iron Bench Legs

Built to a Standard



HEIGHT...31 $\frac{1}{2}$ " WIDTH....32" WEIGHT....28 lbs.

1—5 $\frac{3}{4}$ "x1 $\frac{3}{4}$ " Plank to be mounted edgewise securely bolted to bracket and leg adds strength, provides back rest for flooring, and acts as a cushion support.

2—15"x1 $\frac{5}{8}$ " Plank to be securely bolted to leg adds strength, provides front support for flooring and absorbs metal shock from heavy blows.

3—6" off-set allows for liberal clearance when working from bench stool.

4—19"x18" storage space for tools and material.

5—31 $\frac{1}{2}$ " from floor provides convenient height for opera-

tor working from either stool or standing position.

6—5"x4" oval casting base, or feet, with two 1 $\frac{1}{2}$ " holes for anchoring bench to floor.

7—8 $\frac{1}{2}$ " from floor level allows ample space to facilitate easy sweeping.

8—2"x2"x $\frac{1}{4}$ " angle iron cross bars riveted to leg for shelf support. 18"x $\frac{3}{4}$ " boards to be bolted to support.

9—All angles welded by oxy-acetelene process to insure additional strength.

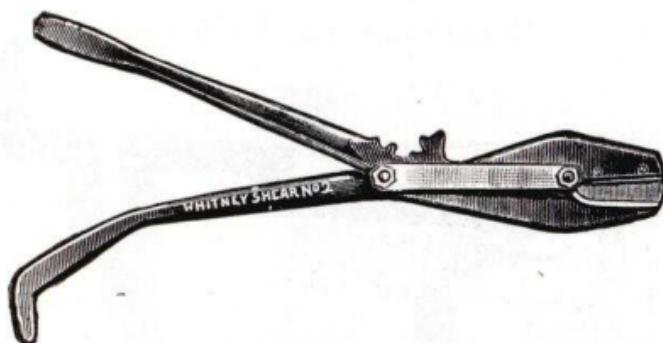
10—2"x $\frac{1}{4}$ " Tee-iron racket securely riveted to leg for backboard.

Price \$7.50 Each

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 2 Shear



CAPACITY $\frac{1}{8}$ -INCH THICKNESS
OR LIGHTER

Weight.....12 lbs.
Price.....\$20.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The construction of this shear makes it possible to cut just as easy at the extreme point of blade as it will up close to the hinge bolt on account of our patented eccentric gear. Note the leverage. Will slit large sheets.

Drop forged, heat treated steel. Inserted tool steel shearing blades. Extra blades can be furnished. You cannot go wrong buying one of these shears.

No. 2 Shear Parts

700 Lower handle jaw.....	\$ 9.00
701 Movable shear jaw.....	9.00
702 Operating handle.....	4.00
703 Support strap.....	.75
704 Shear blade hinge bolt with Nuts.....	.75
705 Operating handle hinge bolt with Nuts..	.60
706 Lower Shear blade.....	1.50
707 Movable Shear Blade.....	1.50
708 Shear Blade Screw, 4 required, each.....	.20
709 Shear Blade Adjusting Set Screw, 2 re- quired, each.....	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

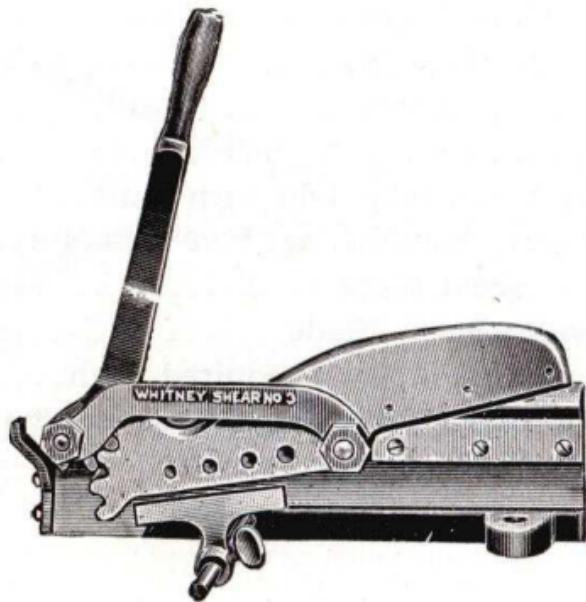
To Get Results Use

Genuine Punches and Dies Marked Thus:



There Is a Difference

No. 3 Bench Shear



Capacity $\frac{1}{8}$ -inch thickness or lighter. Will cut rounds $\frac{1}{8}''$, $\frac{3}{16}''$, $\frac{1}{4}''$, $\frac{5}{16}''$.

Weight.....	25 lbs.
Length cutting blades.....	5 inches
PRICE.....	\$45.00
Extra cutting blades, each.....	2.00
Extra cutting dies, state size.....	.55

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

No. 3 Bench Shear Parts

501 Shear base.....	\$18.65
502 Moveable shear arm casting.....	11.35
503 Moveable arm hinge bolt.....	1.35
504 Operating handle.....	6.65
505 Lower Shear Blade.....	2.00
506 Upper Shear blade.....	2.00
507 Operating Handle Hinge Bolt.....	1.35
508 Support strap.....	2.00
509 Cutting die (State size), pair.....	1.10
510 Shear Blade screw, 6 required, each.....	.15
511 Gauge casting.....	1.50
512 Gauge bar.....	.40
513 Gauge thumb screw.....	.20
514 Shear Blade Adjustment Screws, 3 required, each.....	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

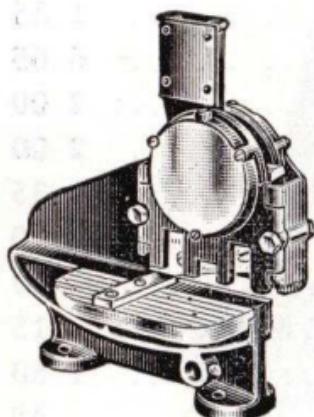
Here is a quotation from a firm in Quincy Point, Mass., which writes:

"Will say that we consider your Punches the very best of the kind on the market and we have a number of them in constant use."

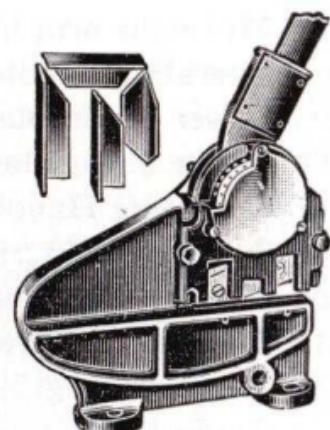
Signed by the President.

No. 6 Slitting Shear

Roller Bearing



With Table



Without Table

CAPACITY, $\frac{3}{16}$ " THICKNESS

Weight.....	23 $\frac{1}{2}$ lbs.
Price, without Table or Gauge.....	\$45.00
Gauge.....	2.50
Work table.....	6.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Cutter blades $4\frac{1}{4}$ " in length. Largest Mitre which can be cut is $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{1}{8}$ " angle or smaller.

Will slit sheets and cut off flats. Inserted adjustable shear blades, easily operated and durable.

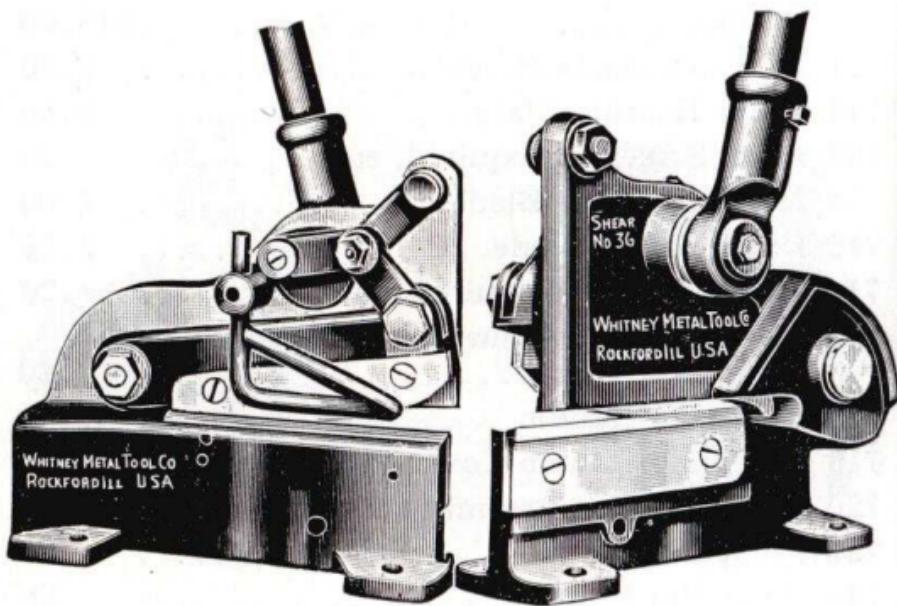
No. 6 Slitting Shear Parts

710 Frame.....	\$15.00
711 Movable Blade Holder.....	5.50
712 Outer Bearing Plate.....	5.50
713 Plate Screws, 2 required, ea.....	.20
714 Movable Shear Blade.....	2.00
715 Lower Shear Blade.....	2.00
716 Blade Screw, 4 required, ea.....	.20
717 Lower Blade Adjustable Screw, 2 required, ea.....	.20
718 Eccentric Handle.....	7.00
719 Eccentric Handle Cover Plate.....	.50
720 Roller Bearing Assembly, 2 required, ea..	3.90
721 Pivot Pin.....	.40
722 Pivot Pin Roller.....	.50
723 Roller Bearings, 50 req., 10c ea., per set.	1.75
724 Roller Retainers, 4 required, ea.....	.40
725 Roller Retainer Spacers, 6 required, ea...	.20
726 Roller Cover Plate, 2 required, ea.....	1.50
727 Cover Plate Screws, 6 required, ea.....	.10
728 Flat Bar Handle.....	1.50
729 Gauge Head.....	1.80
730 Gauge Bar.....	.40
731 Gauge Bar Lock Screw.....	.10
732 Gauge Thumb Screw.....	.20
733 Self Closing Oil Hole Covers, 2 required, ea.....	.20
734 Shear Work Table.....	6.00
735 Stop Guide.....	.50
736 Stop Guide Screw.....	.15
737 Shear Table Cap Screw, 2 required, ea...	.15

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Shear No. 36



Capacity.....	10 Gauge Iron
Weight.....	20 lbs.
Length of cutting blades.....	7 inches
Length of Shear over all.....	11 inches
Height of Shear over all.....	10 inches
Price of Shear with hold down.....	\$41.00
Price of extra Shear blades.....	3.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter



Is on ALL Your

PUNCHES AND DIES

*They Are Made in Our Own Factory
and Are Genuine*

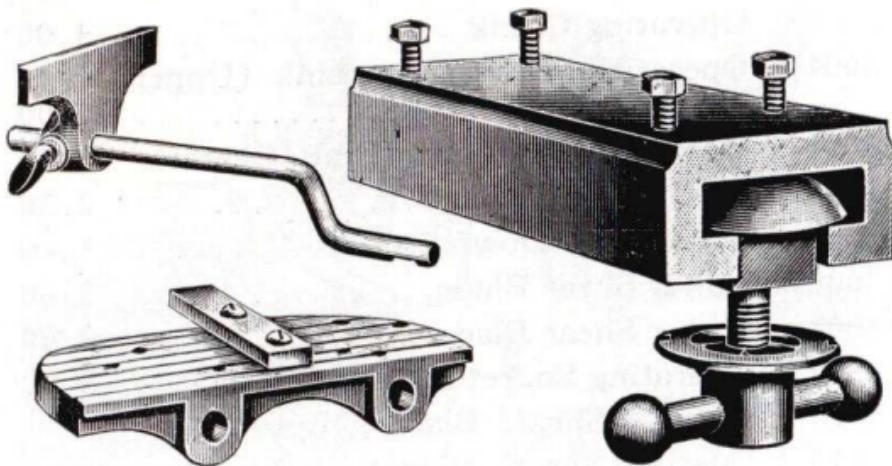
No. 36 Slitting Shear Parts

3601	Shear Frame.....	\$12.00
3602	Shear Blade Arm.....	6.00
3603	Operating Crank.....	4.00
3604	Operating Connecting Link (Upper and Lower).....	2.00
3604-1	Operating Connecting Link (Center).....	2.00
3605	Stock Hold Down.....	2.50
3606	Stock Hold Down Stud.....	1.00
3607	Lower Shear Blade.....	3.00
3608	Upper Shear Blade.....	3.00
3609	Operating Socket Handle.....	3.00
3610	Special Shear Blades, upper	Ask for
3610-1	Special Shear Blades, lower	Quotation
3611	Operating Crank Collar.....	1.00
3612	Upper Connecting Link Bolt and Nut	1.00
3613	Center Connecting Link Bolt and Nut.....	1.00
3614	Shear Arm Link Bolt.....	1.00
3615	Shear Arm Hinge Bolt.....	1.50
3616	Shear Arm Hinge Bolt Nut.....	.20
3617	Crank Pin Washer.....	.20
3618	Crank Pin Washer Screw.....	.20
3619	Shear Blade Screws.....	
	Upper or Lower.....	.20
3620	Lower Shear Blade Adj. Screws.....	.15
3621	Operating Socket Handle Washer....	.20
3621-1	Operating Washer Screw.....	.20
3622	Needle Roller Bearing, 3c ea. (74 in set) per set.....	1.75

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Shear Gage 36-G—Shear Table 36-T—Shear Base 36-B



Price Shear Gage No. 36-G, each, complete... \$ 2.00
Price Shear Base No. 36-B, each, complete... 6.00
Price Shear Table No. 36-T, each, complete.. 6.00

f. o. b. Rockford, Ill.

The Length Gage No. 36-G is used in connection with the No. 36 Shears and is valuable for cutting work to equal lengths.

The Base No. 36-B. is used as a handy device on the No. 36 Shears and can be held secure or removed from the bench in a moment. Note the large turnbuckle nut. The Shear can be held secure to the base with the four cap screws furnished permanently if desired, and the Shear used as a portable unit. The Base is light in weight and a very useful item.

The Work Table No. 36-T is also used in connection with Shear No. 36. This handy unit can be held permanent with the Shear or removed in about one minute by the means of removing two cap screws furnished.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Parts on Nos. 36-G, 36-T, and 36-B

GAGE—36-G

36-G-1	Length Gage Rod.....	\$.50
36-G-2	Length Gage Rod Set Screw.....	.10
36-G-3	Gage Stop Head.....	1.50
36-G-4	Gage Stop Head Wing Nut.....	.15

WORK TABLE—36-T

36-T-1	Table Proper Casting.....	\$ 6.00
36-T-2	Table Cap Screws, each.....	.10
36-T-3	Table Stop Gages, each.....	.20

BASE—36-B

36-B-1	Base Proper.....	\$ 4.40
36-B-2	Base and Shear Cap Screws, each...	.10
36-B-3	Base Binding Bolt.....	1.00
36-B-4	Base Binding Bolt Turnbuckle Nut..	1.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

To Get Results Use

Genuine Punches and Dies Marked Thus:



There Is a Difference

No. 4 Angle Iron Shear



CAPACITY 2"x2"x $\frac{1}{4}$ " ANGLE IRON

Weight..... 44 lbs.
PRICE..... \$50.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Above shear has inserted tool steel blades and also self-clamping rest pad, and is provided with adjusting screw for cutting light angles off square, adjusting screw at end of self-supporting pad, no clamping being necessary. It has equal distribution of leverage over the entire surface of the cutting blades on account of eccentric gear. Material in this shear is of the highest grade. All wearing parts hardened throughout. Manufactured in drill jigs and fixtures so that all parts are interchangeable.

No. 4 Angle Iron Shear Parts

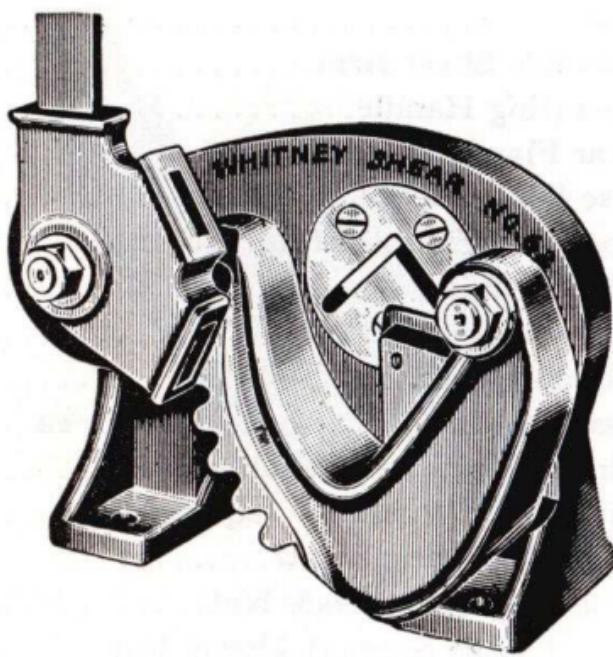
525 Base.....	\$22.50
526 Movable Shear Arm.....	13.50
527 Operating Handle.....	6.00
528 Gear Flange Support.....	2.00
529 Base Hinge Bolt.....	1.75
530 Operating Handle Hinge Bolt.....	1.75
531 Base Shearing Die.....	12.00
532 Movable Shear Blade.....	5.00
533 Movable Shear Blade Screw.....	.20
534 Base Die Shear Screw, 3 required, ea...	.40
535 Hinge Bolt Nut, 4 required, ea.....	.15
536 Hinge Bolt Washer, 4 required, ea.....	.10
537 Angle Adjusting Screw.....	.40
538 Adjusting Screw Lock Nut.....	.15
539 Gear Flange Support Dowel Pin.....	.15
540 Bar Handle.....	3.00

f. o. b. Rockford, Ill.



Do not insert Slugs in the end of Spindle of Ball Bearing Type Machines as this will break Punches. After the Punch Coupler has been securely tightened, the Punch should Revolve Freely.

No. 62 Angle Iron Shear



CAPACITY 3"x3"x¹/₄" ANGLE IRON

Weight..... 154 lbs.
Price..... \$130.00

f. o. b. Rockford, Ill.

This Shear will distort the refuge end of the angle but it only requires a few blows with a hammer to straighten same. This distortion cannot be avoided with this construction. The shear, however, is meeting with approval, as we are receiving repeat orders.

Above Shear is built on the same principle as our famous No. 4 Angle Iron Shear only it being heavier and more powerful.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 62 Angle Iron Shear Parts

645 Base.....	\$45.00
646 Movable Shear Arm.....	28.00
647 Operating Gear Handle.....	11.00
648 Movable Arm Bolt.....	3.00
649 Operating Gear Handle Bolt.....	3.00
650 Base Shearing Die.....	23.00
651 Movable Shear Blade.....	10.00
652 Base Shearing Die Screw, 3 required, ea.	.50
653 Movable Shear Blade Screws, 2 re- quired, ea.....	.25
654 Movable Arm Washers, 4 required, ea...	.20
655 Movable Arm Bolt Nuts, 2 required, ea..	.35
656 Angle Adjusting Screw.....	.60
657 Angle Adjusting Screw Lock Nut.....	.20
658 Bar Handle.....	4.00
659 Operating Gear Handle Bolt Nuts, 2 required, ea.....	.35

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Be Sure the Letter

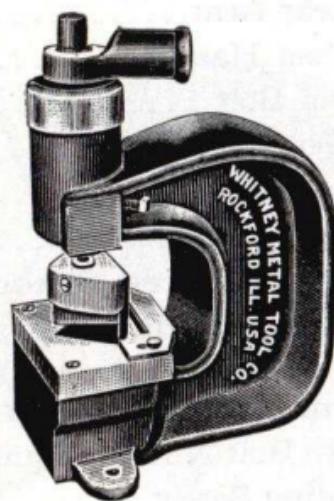


Is on ALL Your

PUNCHES AND DIES

*They Are Made in Our Own Factory
and Are Genuine*

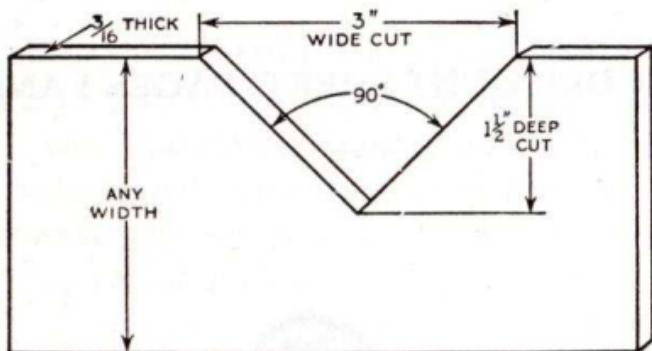
No. 49 Ball Bearing Notcher For Sheet Metal or Angle Iron



Capacity of standard tool 90 degree notch $1\frac{1}{2}$ " deep through $\frac{3}{16}$ " sheet metal or angle iron.

Weight.....	65 lbs.
Price.....	\$100.00
Front Bracket Device.....	8.50
Price of special degree notching and die ...	60.00
Price of coping Punch and die.....	60.00

f. o. b. Rockford, Ill.



No 49 machine is furnished with a 90 degree notching punch and die as regular equipment, all other sizes are special and can be made up on order. This machine is equipped with depth gauge so that any depth of notch can be cut up to and including $1\frac{1}{2}$ " by adjusting gauge.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 49 Notcher Parts

340-A	Notcher Base Frame.....	\$30.00
341-A	Spindle.....	16.00
342-A	Operating Handle.....	4.00
343-A	Dust Cap.....	1.65
344-A	Ball Race Sleeve.....	11.35
345-A	Ball Race Sleeve Set Screw.....	.15
346-A	Stop Collar.....	2.00
347-A	Handle Washer.....	.15
348-A	Handle Washer Screw.....	.15
349-A	Stop Collar Screw.....	.15
350-A	Ball Bearings, 38 req., 12c ea., per set.	1.00
351-A	Punch Coupler.....	1.25
352-A	Wrench for Punch Coupler.....	.80
353-A	Shearing Blade Holder, 90° Standard Eqpt.....	20.00
354-A	Shearing Blade, 90° Standard Eqpt..	4.00
355-A	Lower Die, 90° Standard Eqpt.....	20.00
356-A	Coupling Pin.....	1.25
357-A	Shearing Blade Holder Set Screw....	.20
358-A	Die Screw.....	.20
359-A	Shearing Blade Screw.....	.20
360-A	Gauge Plate.....	4.00
361-A	Gauge Plate Screw.....	.20
362-A	Die Dowel Pins.....	.20

Front Gauge Device

366-A	Front Gauge Bracket.....	\$4.50
367-A	Front Gauge Bracket Cap Screw, ea..	.20
368-A	Front Sliding Gauge.....	3.00
369-A	Hold Down Screws, ea.....	.20
370-A	Front Binding Screw.....	.80
372-A	Punch Holder Set Screw.....	.20
373-A	Stripper Fingers, ea.....	1.00
374-A	Stripper Finger Screws, ea.....	.20

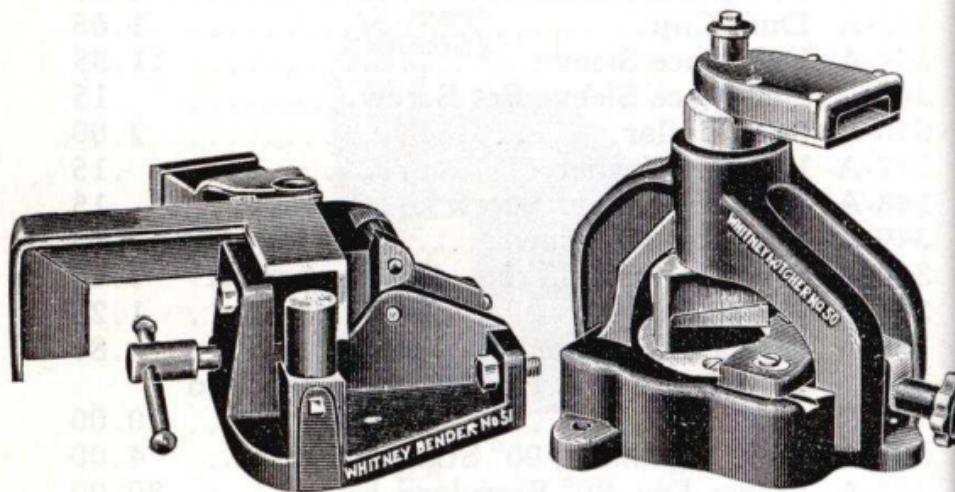
Special Degree and Coping Parts

363-A	Shearing Blade Holder.....	\$27.00
364-A	Shearing Blade.....	6.00
365-A	Lower Die.....	27.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 50 Angle Iron Mitre Notcher and No. 51 Angle Iron Bender



CAPACITY 2"x2"x $\frac{1}{4}$ " Angle Iron or smaller.

Weight of Mitre Notcher only	55 lbs.
Weight of Mitre Notcher Bender only.....	43 lbs.
Price of No. 50 Mitre Notcher.....	\$100.00
Price of No. 51 Mitre Notcher Bender.....	41.70
Price of Special Degree Notching Punch and Die.....	60.00
Price of Coping Punch and Die.....	60.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Ball Bearing Spindle

The No. 50 Machine is furnished with a 90 degree Notching Punch and Die as regular equipment. All other sizes are special. Will cope all size of angles to 2"x2"x $\frac{1}{4}$ ".

The No. 51 Machine bends flats as well as angles.

Special Degree and Coping Parts

807-A Shearing Blade Holder.....	\$27.00
809-A Shearing Blade.....	6.00
810-A Lowering Die.....	27.00

No. 50 Mitre Notcher Parts

800	Mitre notcher base frame.....	\$30.00
801	Spindle.....	13.50
802	Ball race sleeve.....	11.35
803	Ball bearings, 12c ea. (30 in set), per set.....	.90
804	Ball race sleeve set screw, each, 2 required.....	.20
805	Dust cap.....	1.65
806	Operating handle.....	4.00
807	Shearing blade holder, 90 degree standard equipment.....	20.00
808	Punch coupler.....	1.25
809	Shearing blade, 90 degree standard equipment...	4.00
810	Lower die, 90 degree standard equipment.....	20.00
811	Stop collar set screw, each, 3 required.....	.15
812	Front Clamp screw spring.....	.25
813	Front clamp screw.....	.80
814	Clamp for holding angle iron.....	4.00
815	Flat stock handle.....	2.50
816	Coupling pin.....	1.25
817	Stop Collar.....	2.00
818	Punch holder set screw, each, 2 required.....	.30
819	Die screw, each, 2 required.....	.20
820	Shearing blade screw, each, 2 required.....	.20
821	Handle washer.....	.15
822	Clamp hold down screw, each, 2 required.....	.40

No. 51 Bender Parts

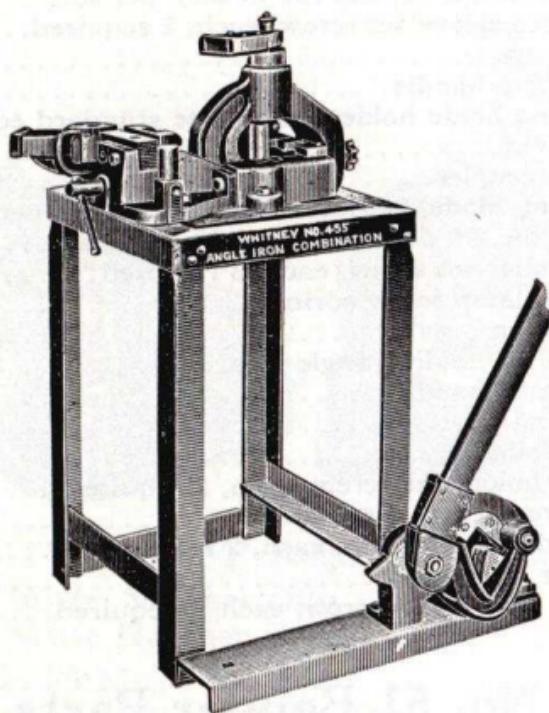
325	Bender base frame.....	\$20.00
326	Operating handle.....	8.00
327	Operating handle swivel block.....	4.00
328	Operating handle swivel block stud.....	.70
329	Stationary jaw, steel.....	3.50
330	Movable clamp jaw.....	2.50
331	Movable clamp jaw arm.....	2.00
332	Movable clamp jaw pin.....	.20
333	Movable clamp jaw arm pin.....	.20
334	Handle hinge bolt.....	2.00
335	Stationary jaw screw.....	.20
336	Vise handle screw, complete.....	2.00
337	Stationary jaw pin.....	.30
338	Flat stock handle.....	2.50
339	Clamp jaw spring.....	.25
340	Angle iron post support.....	1.25
341	Angle iron post support screw.....	.20
342	Eccentric Adjusting Bushing.....	.40
343	Eccentric Adjusting Bushing Key.....	.20
344	Swivel Block Stud Set Screw.....	.20
345	Handle Hinge Bolt Nut.....	.40

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Angle Iron Machinery

Angle Iron Combination No. 455



CAPACITY: All sizes of angles up to including
 $2'' \times 2'' \times 1/4''$ Angle Iron.

Price complete, including Angle Iron Shear
No. 4, Mitre Notcher No. 50, Bender
No. 51, and Stand.....\$225.00
Weight 214 lbs.

f. o. b. Rockford, Ill.

A Complete Unit for working Angle Iron

SEE DISCOUNT SHEET, PAGES 1 AND 2

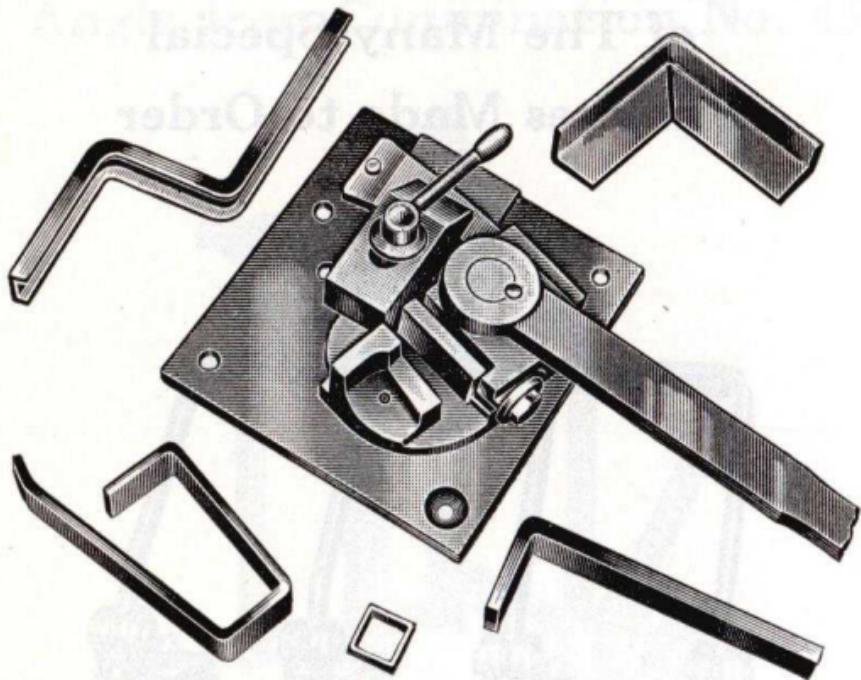
**One
of The Many Special
Punches Made to Order**



4 No. 16 Punches in a Gang

**Let Us Help
Solve Your Punching
Problems**

Universal Bender No. 53



Capacity $\frac{1}{2}'' \times 2\frac{1}{4}''$ commercial iron.

Size of bender proper 12" x 12" not including handle.

Weight..... 60 lbs.

Depth of Jaw..... $2\frac{3}{8}''$

Price..... \$75.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

Smallest rectangular shape which can be bent is $2\frac{1}{2}'' \times 3''$; smallest square shape $3'' \times 3''$; and all sizes of angles up to and including $2\frac{1}{2}'' \times 2\frac{1}{2}'' \times 3\frac{3}{8}''$.

This bending fixture is very simple to operate. Nothing to get out of order. Has a self clamping device, eliminating any straightening to be done after the bending has been completed as handles have automatic tension feature.

No. 53 Universal Bender Parts

5301 Bending Jaw Base.....	\$35.00
5302 Base Steel Plate.....	12.00
5303 Bending Block Anvil.....	8.00
5304 Bending Block Bolt.....	2.00
5305 Bending Block Bolt Washer.....	.25
5306 Taper Wedge.....	2.50
5307 Wedge Base Plate Support.....	1.50
5308 Clamping Cam Jaw.....	12.00
5309 Clamping Cam Jaw Bolt.....	.50
5310 Clamping Cam Jaw Washer.....	.25
5311 Handle Spindle Cam.....	6.00
5312 Flat Bar Handle Socket.....	4.00
5313 Flat Bar Handle.....	2.50

Net. f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

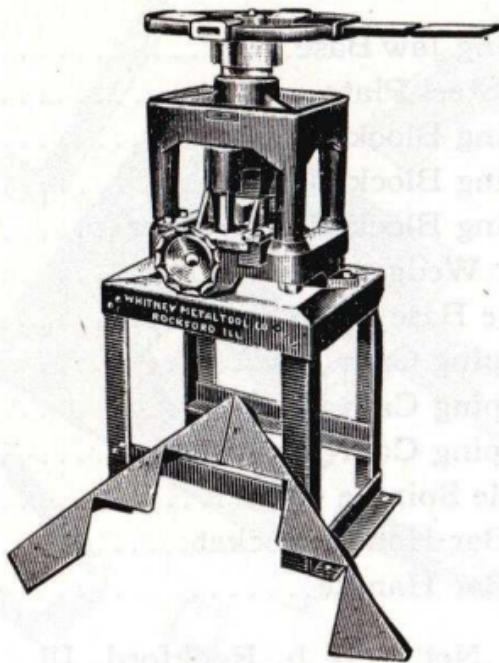
To Get Results Use

Genuine Punches and Dies Marked Thus:



There Is a Difference

No. 60 Angle Iron Mitre Notcher



CAPACITY: 3"x3"x $\frac{3}{8}$ " Angle Iron or Smaller.

Weight.....	250 lbs.
Price, complete with Stand	\$225.00
Price of Special Degree Notching Punch and Die.....	80.00
Price of Coping Punch and Die.....	80.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

The No. 60 Machine is furnished with a 90 degree Notching Punch and Die as regular equipment. All other sizes are special. Will cope all sizes of angles to 3"x3"x $\frac{3}{8}$ ".

The above Angle Iron Mitre Notcher is equipped with Ball Bearing Spindle, Ball Bearing End Thrust, Socket Operating Handle, Screw Clamping Device, inserted Tool Steel Shearing Blades. Punch enters die by means of guide pins. Parts interchangeable

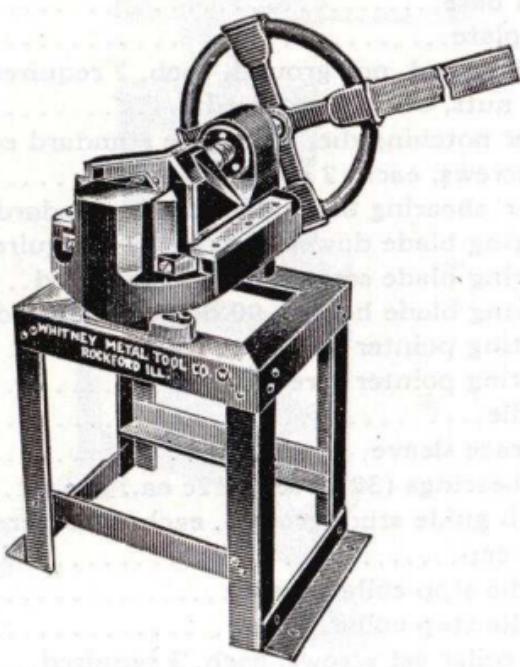
No. 60 Mitre Notcher Parts

600 Main base.....	\$40.00
601 Top plate.....	25.00
602 Spacing stud, not ground, each, 2 required.....	3.00
603 Stud nuts, each, 8 required.....	.40
604 Lower notching die, 90 degree standard eqpt....	25.00
605 Die screws, each, 2 required.....	.20
606 Upper shearing blade, 90 degree standard eqpt..	8.00
607 Shearing blade dowel pins, each, 2 required.....	.08
608 Shearing blade screws, each, 2 required.....	.15
609 Shearing blade holder, 90 degree standard eqpt..	25.00
610 Locating pointer.....	.30
611 Locating pointer screw.....	.15
612 Spindle.....	20.00
613 Ball race sleeve.....	18.00
614 Ball bearings (32 in set), 12c ea., per set.....	.90
615 Punch guide stud, ground, each, 2 required.....	4.00
616 Dust cap.....	2.25
617 Spindle stop collar, lower.....	2.50
618 Spindle stop collar, upper.....	2.00
619 Stop collar set screws, each, 3 required.....	.15
620 Stop collar locking ring.....	.20
621 Hand wheel washer.....	.25
622 Hand Wheel washer screw.....	.15
623 Clamp nut for ball race sleeve.....	3.00
624 Sleeve clamp nut locking screw.....	.15
625 Spindle coupling stud.....	2.50
626 Spindle coupling stud lock screw, each, 2 required.	.12
627 Spindle coupling stud balls, each, 2 required.....	.12
628 Coupling stud lifting screws, each, 2 required....	.20
629 Spindle end thrust bearing, complete.....	6.00
630 Lower notching die, special degree.....	35.00
631 Upper shearing blade, special degree.....	10.00
632 Shearing blade holder, special degree.....	35.00
633 Clamp for holding angle iron.....	8.00
634 Clamping Screw.....	.35
635 Clamping hand wheel.....	.90
636 Clamping hand wheel pin.....	.08
637 Clamp hold down stud.....	2.50
638 Clamp hold down stud washer.....	.15
639 Clamp hold down stud washer screw.....	.15
640 Clamp spring.....	.25
641 Socket hand wheel.....	18.00
642 Angle iron base.....	35.00
643 Operating handle, flat bar.....	3.00

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SEE DISCOUNT SHEET, PAGES 1 AND 2

No. 61 Angle Iron Bender



CAPACITY: 3"x3"x $\frac{3}{8}$ " Angle Iron or smaller.
Weight..... 238 lbs.
Price, complete with stand..... \$130.00

f. o. b. Rockford, Ill.

SEE DISCOUNT SHEET, PAGES 1 AND 2

This machine can be used for bending most any shape by using special jaws to suit; such as flats, angles, T-iron, etc.

No. 61 Bender Parts

661 Main base.....	\$30.00
662 Movable jaw casting.....	20.00
663 Movable jaw steel plates, 2 required, ea..	5.00
664 Steel plate screws, 4 required, each.....	.15
665 Steel plate pins, 4 required, each.....	.10
666 Anvil steel jaw.....	6.00
667 Anvil steel jaw screw.....	.25
668 Angle iron support, right hand.....	3.00
669 Angle iron support, left hand.....	3.00
670 Angle iron support screw.....	.18
671 Spindle.....	20.00
672 Spindle end thrust bearing, complete....	6.00
673 Gib plates, right hand.....	3.00
674 Gib plates, left hand.....	3.00
675 Gib plate screws, 6 required, each.....	.15
676 Spindle coupling stud.....	2.50
677 Coupling stud lock screw.....	.15
678 Coupling stud lifting screws, 2 required, each.....	.20
679 Ball race sleeve.....	18.00
680 Spindle sleeve magazine pins, 2 required, each.....	.75
682 Spindle sleeve end washer, 2 required, ea.	.50
683 End washer screws, 6 required, each.....	.15
684 Socket hand wheel, complete.....	22.00
685 Hand wheel washer.....	.25
686 Hand wheel washer screw.....	.15
687 Ball bearings, 58 required, each.....	.12
688 Angle iron base.....	35.00
689 Bar Handle, 4 required, each.....	1.50

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SEE DISCOUNT SHEET, PAGES 1 AND 2

SEVENTEEN NEW IMPROVEMENTS

OVER OTHER STEEL BENDING BRAKES

- 1** Combination, for plain bending, and box or pan bending.
- 2** Instantaneous adjustment for different thickness of metal. No guess work.
- 3** Welded steel plate box type construction. 50% more gripping power and less deflection.
- 4** Any desired space of opening between the jaws can be had; unnecessary to complete the cycle of the cam of clamping handle.
- 5** Cast iron gib plates (adjustable) to take up wear; wearing surface, cast iron against steel.
- 6** Full 2 inch opening between the jaws on the clamping handle; opening can be increased to 4 inches.
- 7** The upper bending jaw can be moved toward rear of machine 6 inches from bending apron.
- 8** Rear back gauge provided and liberal rear open space.
- 9** Bending against stationary upper bending jaw.
- 10** Stops provided to assure a fixed opening between the jaws of the machine.

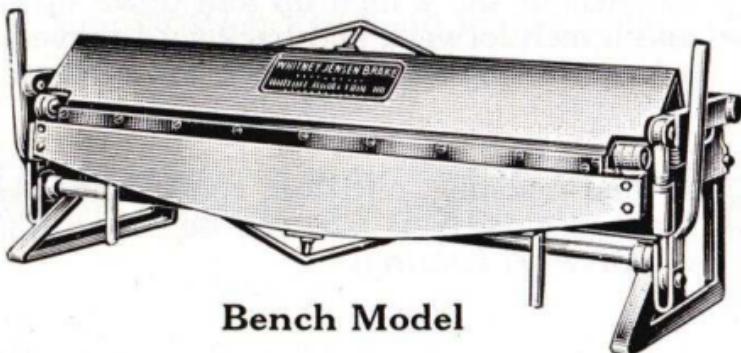
- 11** The upper bending jaw can be moved to 10 degree angle in relation to front bending apron.
- 12** Because of the 2 inch up and down opening and 6 inch forward and backward movement a large range of special work can be done.
- 13** A dual machine, one floor space, one investment, hundreds of jobs can be done because of universal features.
- 14** Upper bending jaw is so graduated to insure proper alignment.
- 15** Reinforced front angle iron support.
- 16** Hardened and ground hinge pins, polished bending nose for stainless steel.
- 17** Because of our universal design, taper work can be securely held between the jaws, also conical work can be accomplished.

DESIGN

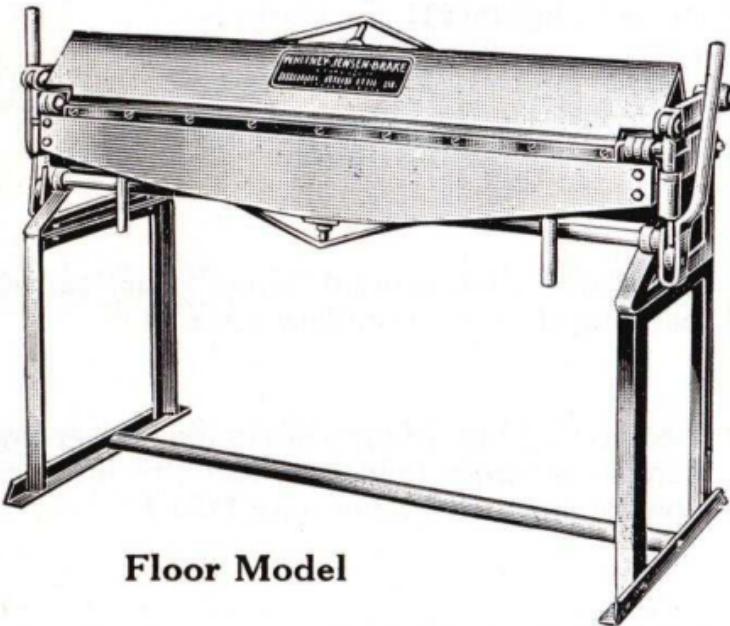
In the design of our Steel Bending Brakes we have given every consideration to the matter of strength. The latest improvements of real value have been incorporated in these Machines and at the same time complicated design has been studiously avoided. Sturdy construction throughout, yet easy to operate.

Whitney-Jensen Portable “Air Conditioning Special”

4 ft., 20 ga. Bending Brake,



Bench Model



Floor Model

The "Air Conditioning Special" is a PORTABLE Brake, weighing only 265 pounds (Bench Model). It is also available in a COMBINATION Type, suitable for box and pan bending as well as all kinds of straight bending.

SPECIFICATIONS

	Bench Type	Floor Type
Overall length.....	61"	61"
Overall height.....	20"	43"
Depth, front to back.....	24"	24"
Capacity, width.....	49"	49"
Maximum opening between jaws.....	1 1/8"	1 3/4"
Net weight.....	265	290
Shipping weight.....	325	370

Price

Air Conditioning Special Brake

Bending Type Only

4' 20 gauge Bench Type skidded.....	\$158.35
4' 20 gauge Floor Type skidded.....	179.20

Air Conditioning Special Brake

Bending and Box Finger Style

4' 20 gauge Bench Type skidded.....	\$183.35
4' 20 gauge Floor Type skidded.....	204.20

Brake Fingers

Air Conditioning Type Fingers, 4" depth, per lineal in. \$2.40

SEE QUANTITY FINGER DISCOUNT, PAGE 1

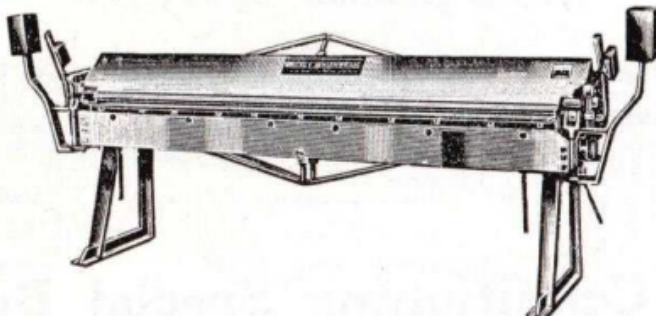
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SEE DISCOUNT SHEET, PAGES 1 AND 2

The frame of the Bench type may be bolted to a bench through the lower angle members, which have extended forefeet to give adequate support for all bending operations or a sub-base frame of angle iron with a tubular tie rod and angle feet to convert the bench model for floor use.

The apron is of welded steel plate construction with a truss stiffener, and is pivoted on hardened and ground steel pins to insure lasting accuracy. Two removable front plates are set into the upper edge to take the principal stress of the bend. By removing one of them reverse bends as short as $\frac{3}{16}$ " can be made.

Whitney-Jensen 18 Gauge Combination Bending Brake



	Shipping Weight	Price
5 foot.....	1015 lbs.	\$249.00
6 foot.....	1090 lbs.	270.00
8 foot.....	1550 lbs.	300.00
10 foot.....	1940 lbs.	525.00

SEE BOX FINGER AND FORMER PRICES ON PAGE 87

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SEE DISCOUNT SHEET, PAGES 1 AND 2

CONSTRUCTION FEATURES

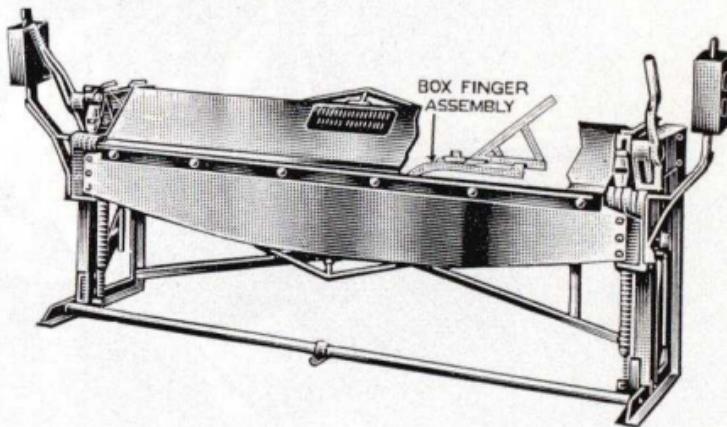
The upper and lower jaws, and the bending apron, are of welded steel plate construction with angle and truss stiffeners. This construction has proved eminently satisfactory on the hundreds of Whitney-JENSEN Brakes now in use, as it provides an ideal combination of lightness, accuracy, and durability. The lower jaw is fixed and clamping of the work is accomplished by moving the upper jaw down to it by two counterweighted levers working through toggle connections which are adjustable for thickness of material. Hardened and ground apron and toggle pins are used. All parts are accurately machined and carefully assembled.

FOR COMBINATION SERVICE

This Brake is designed for box and pan bending, as well as all types of straight bending, the change over from one to the other being accomplished quickly, easily, and accurately. By loosening two clamp nuts at each end, the upper jaw may be cammed up into the correct position to receive the movable box fingers which are clamped to the front edge. The upper jaw assembly is carried on four studs in guiding slots with locating offsets which permit rapid positioning for either service.

Whitney-Jensen

Combination - Roller Bearing Bending and Box Brake



Size	Feet	Inch	Capacity	Shipping Weight	Price
16-4	4	1	16	1300	\$250.00
16-5	5	1	16	1400	341.75
16-6	6	1	16	1900	375.00
16-8	8	1	16	2520	450.00
16-10	10	1	16	3300	666.70
14-4	4	1	14	1410	300.00
14-5	5	1	14	1525	425.00
14-6	6	1	14	2065	450.00
14-8	8	1	14	2670	575.00
14-10	10	1	14	3485	775.00

12 Gauge Machines Quoted on Request

Standard Pan or Box Fingers, 6" depth used in 18, 16 and 14 gauge machines, per lineal inch.....\$3.00

Box Fingers are made in Multiples from 2 inches to 6 inches by $\frac{1}{2}$ inch variation and 8" in width, 6" depth.

BRAKE FORMING MOULDS

Sizes	4'	5'	6'	8'	10'
$\frac{5}{8}''$	\$1.15	\$1.50	\$2.25	\$3.00	\$3.40
1''	1.15	1.90	2.65	3.40	4.15
$1\frac{5}{8}''$	1.50	1.90	3.00	3.75	4.90
$2\frac{1}{4}''$	1.90	2.65	3.75	4.90	5.65
3''	2.65	3.75	4.50	5.25	6.40

Price complete

Set of Five 11.25 13.15 15.00 18.75 22.50

Clamps furnished gratis when full set is purchased at one time, otherwise price is 15c each list.

NOTE:—When ordering in less than a complete set of 5; that is, in broken lots, there will be a 10% additional to individual prices above.

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All Machines are skidded for Domestic Shipment without extra cost. Price of boxing for Export Shipment quoted on Application.

SEE DISCOUNT SHEET, PAGES 1 AND 2

PRESSING SEAMS

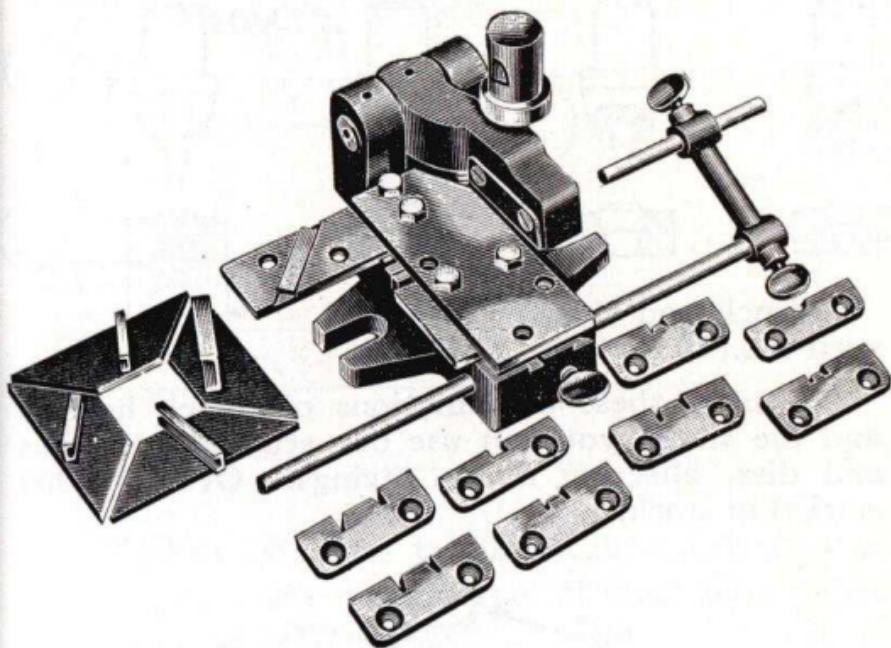


For pressing down seams insert the metal as illustrated above at an angle, pressing a portion at a time. If care is exercised by holding work parallel between the jaws of the brake, seams will be parallel and no distorted surface noticeable. When pressing seams in the above manner it will save your brake from becoming sprung and will always do good straight work.

Consult us on any irregular bending you have to do.

Power Punch

Cut-Off Set No. 55



Price of fixture with regular equipment.....	\$75.00
Shear blades, for above fixture, per set.....	7.00
Weight.....	42 lbs.
Shipping weight.....	60 lbs.

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SEE DISCOUNT SHEET, PAGES 1 AND 2

Capacity all sizes up to and including $\frac{1}{4}'' \times 2''$ flats, $\frac{1}{2}''$ round or square, also channels all sizes up to and including $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{16}''$. Will cut off flats at 45 or 90 degrees.

Regular equipment consists of a length gauge, hold down plate, plunger pin, and one set of shearing blades.

This Cut-Off fixture will fit any ordinary press and does not require any skill to set up. Blades are always in perfect alignment. Shearing arm rocks on a hardened and ground alloy steel wrist pin. The entire fixture is built of an alloy steel casting.

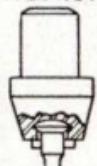
Combination Punch and Die Set

No. 56

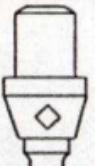
STYLE NO.10



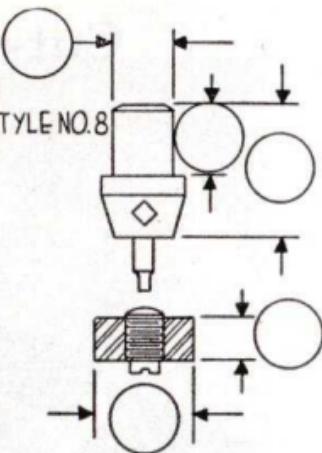
STYLE NO. 20



STYLE NO. 28

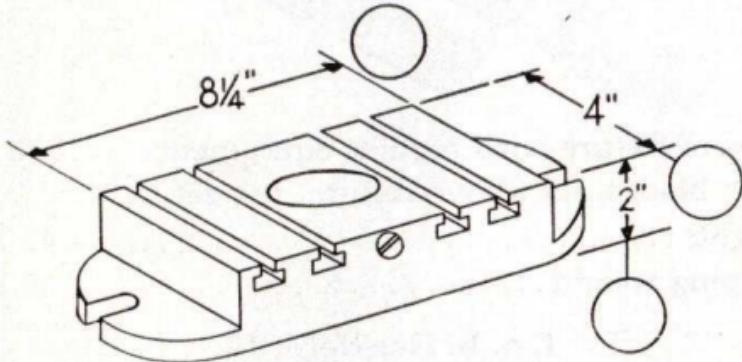


STYLE NO.8

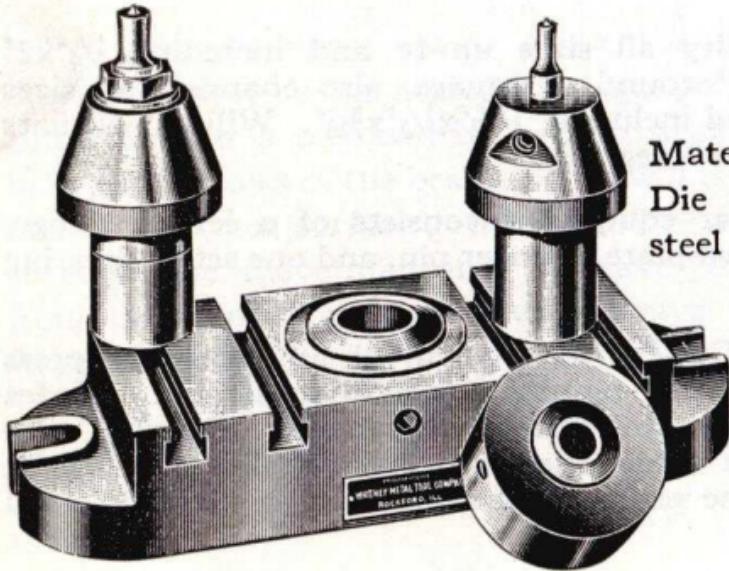


Wrench and Coupler furnished
with No. 10 and No. 20 Styles.

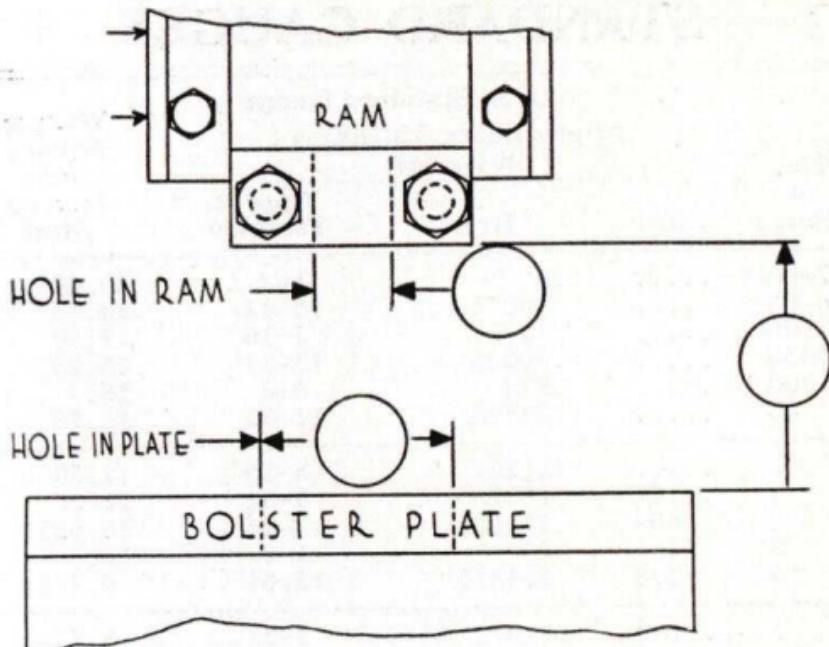
By using these combinations of punch holders and die shoes, you can use our standard punches and dies, effecting a big savings. Over 200,000 carried in stock.



Standard Die Shoe No. 2826. Top surface 4"x8". T slats for $\frac{3}{8}$ " bolts.



Material in
Die Shoe is
steel casting.



CAUTION: Be sure to fill in all dimensions as well as give name and number of machine. Other Die Shoes made to order.

Prices for above equipment are as follows:

1 Die Shoe Adaptor.....	\$13.00
Style No. 10 Punch Holder with Coupler.....	5.00
Style No. 20 Punch Holder with Coupler.....	6.00
Style No. 28 Punch Holder.....	5.00
Style No. 8-Imperial Punch Holder.....	5.00
Die Adaptor for Nos. 7 and 8-Imperial Dies..	4.00
Die Adaptor for Nos. 10, 11, 12 Dies	4.00
Die Adaptor for No. 20 Die.....	4.00
Die Adaptor for No. 40 Die.....	4.00

No Adaptor used over No. 40 die sizes.

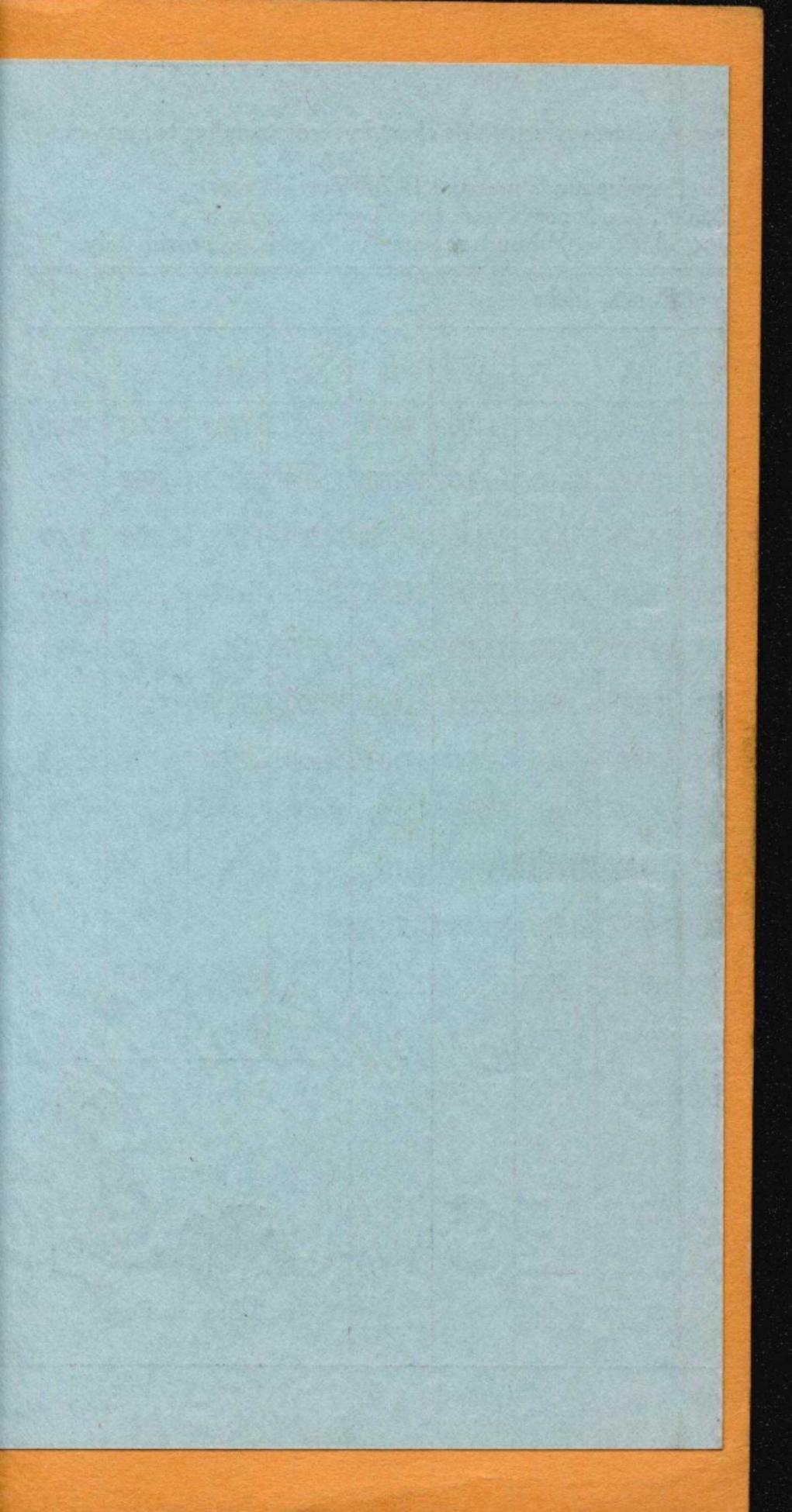
For Punch and Die prices see pages 3, 4, and 5.

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SEE DISCOUNT SHEET, PAGES 1 AND 2

STANDARD GAUGES

No. of Gauge	U. S. Standard Gauge Approximate Thickness in Inches			Wt. per Square Foot Iron or Steel
	Steel	Iron	Approx. Fraction	
7-0's	.....	.5	1-2	20.00
6-0's	.....	.46875	15-32	18.75
5-0's	.....	.4375	7-16	17.50
0000	.....	.40625	13-32	16.25
000	.....	.375	3-8	15.
00	.....	.34375	11-32	13.75
0	....	.3125	5-16	12.50
1	.2757	.28125	9-32	11.25
2	.2604	.265625	17-64	10.625
3	.2451	.25	1-4	10.
4	.2298	.234375	15-64	9.375
5	.2145	.21875	7-32	8.75
6	.1991	.203125	13-64	8.125
7	.1838	.1875	3-16	7.5
8	.1685	.171875	11-64	6.875
9	.1532	.15625	5-32	6.25
10	.1379	.140625	9-64	5.625
11	.1225	.125	1-8	5.
12	.1072	.109375	7-64	4.375
13	.0919	.09375	3-32	3.75
14	.0766	.078125	5-64	3.125
15	.0689	.0703125	9-128	2.8125
16	.0613	.0625	1-16	2.5
17	.0551	.05625	9-160	2.25
18	.0490	.05	1-20	2.
19	.0429	.04375	7-160	1.75
20	.0368	.0375	3-80	1.50
21	.0337	.034375	11-320	1.375
22	.0306	.03125	1-32	1.25
23	.0276	.028125	9-320	1.125
24	.0245	.025	1-40	1.
25	.0214	.021875	7-320	.875
26	.0184	.01875	3-160	.75
27	.0169	.0171875	11-640	.6875
28	.0153	.015625	1-64	.625
29	.0138	.0140625	9-640	.5625
30	.0123	.0125	1-80	.5
31	.0107	.0109375	7-640	.4375
32	.0100	.01015625	13-1280	.40625
33	.0092	.009375	3-320	.375
34	.0084	.00859375	11-1280	.34375
35	.0077	.0078125	5-640	.3125
36	.0069	.00703125	9-1280	.28125
37	.0065	.006640625	17-2560	.265625
38	.0061	.00625	1-160	.25



MEYER SHEET METAL MACHINERY CO.

Exclusive Southern California Distributors

1928 Santa Fe Avenue - TUCKER 8351

LOS ANGELES